

2014 Energy Benchmarking Report

February 2016





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ACKNOWLEDGEMENTS

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EXECUTIVE SUMMARY

A central strategy for meeting the City of Minneapolis climate action goals is to drive high building performance in the commercial market through energy and water benchmarking and disclosure. This third annual report summarizes the data collection activities, benchmarking results, and analysis for the city's largest public and private commercial buildings based on building data submissions through August 31, 2015.

Commercial and industrial energy use represents 47% of greenhouse gas emissions in Minneapolis. Energy use is a significant source of greenhouse gas emissions, and also the largest controllable operational cost in buildings. The crucial first step in addressing and managing energy use is understanding building energy performance. In 2013, Minneapolis adopted the commercial building benchmarking and disclosure policy (ordinance 47.190) requiring public buildings greater than 25,000 square feet, and private commercial buildings 50,000 square feet and above, to report energy and water performance data to the City annually via the Environmental Pollution Agency's ENERGY STAR Portfolio Manager. This policy was among a set of strategies laid out in the Minneapolis Climate Action Plan for improving energy efficiency and reducing greenhouse gas emissions.

Building energy disclosure is intended to increase both building owner and public awareness of building energy performance and then, through increased transparency, the market will spur action to increase efficiency. Greater energy efficiency provides tremendous benefits for Minneapolis building owners, occupants, and the community, including lowered energy costs, increased property values, enhanced building comfort, and reduced air pollution.

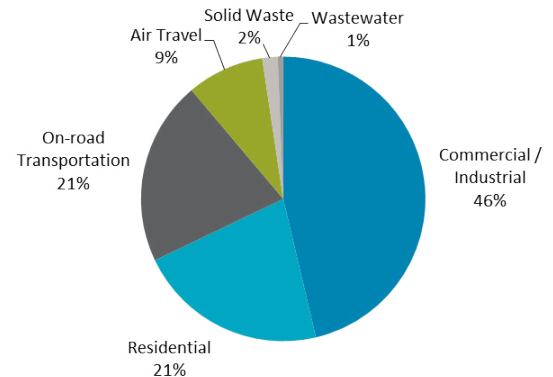


Figure 1. Community-wide greenhouse gas emission inventory, 2014

Key Findings

Data Quantity and Quality Improved. Training and outreach strategies were effective as the private building response rate reached 90% by the 2015 disclosure deadline of August 31. Responses for the largest private buildings (100,000+ ft²) reached 100% by the end of 2015. In addition, data quality improved by 16% in the largest private buildings as benchmarking staff established and promoted clear energy use thresholds to determine compliance. This helped the percentage of compliant buildings jump from 75% in 2013 to 91% in 2014. Data quality was also high for first-time reporting buildings as 84% of buildings sized between 50,000 and 100,000 ft² had sufficient data quality to be compliant.

Public Schools Renewed Focus. In the three years the Minneapolis Public School district has participated in the City's benchmarking program, there has been a renewed focus on whole building energy performance monitoring. This has resulted in notable improvements to the accuracy of their 57 buildings. The district is also seeking to highlight success by investigating ENERGY

Total Buildings Analyzed

429

% of City's Total Commercial Area

50%

Median ENERGY STAR Score

74

Response Rate

90+%

STAR certification for eligible school buildings and sharing results of their achievements.

Benchmarked Buildings' Footprint Identified.

In total, 17% of city-wide greenhouse gas emissions are represented by the 429 buildings analyzed in this report. Efficiency improvements in this small number of buildings could substantially reduce city-wide emissions.

Energy Performance Trended Positive. In general, the Minneapolis large commercial building stock performs better than the national average, and there are indications that energy efficiency has improved over the program time period. A median ENERGY STAR score of 74 shows that almost half of the scores are above the ENERGY STAR certification-qualifying threshold of 75. Looking at trends in public buildings, preliminary three-year analysis showed a 7% reduction in total weather-normalized energy use intensity.

Greatest Savings Opportunities Identified in Offices, Hospitals, and Worship Facilities. Offices have the greatest aggregate potential for total energy and greenhouse gas emissions savings. Representing nearly 40% of benchmarked square footage and 35% of total energy consumed, improvements by each office building could have a significant impact. Hospitals, medical offices, and worship facilities have the largest opportunity for individual improvement. The median ENERGY STAR score for these properties of 44, 46, and 45 respectively fall below the national median of 50, thereby indicating a large potential for energy savings. Hospitals in particular could provide substantial emissions reductions as they consume the second highest percentage of 12% of total energy by property type.

Looking Ahead

Motivating Efficiency Improvements through Recognition. Minneapolis competes on a global scale to attract business, and increasingly companies are adding sustainable spaces with high energy efficiency and correspondingly low operating costs to their criteria. To make high-performing buildings more visible and motivate others to improve performance, the benchmarking team, through funding from the Minnesota Pollution Control Agency, is providing grants for buildings to receive nationally-recognized ENERGY STAR certification.

Advancing the Minneapolis Building Energy Challenge. The Minneapolis Building Energy Challenge provides a platform for buildings to compete on a city level to reduce their greenhouse gas emissions 15% by 2020. By accepting the challenge to reduce emissions

through energy efficiency measures, a median 120,000 ft² building would cut nearly 1,000 metric tons of greenhouse gas emissions measured in carbon dioxide equivalence (CO₂e) and \$52,000 in energy costs. If all buildings joined the challenge, the city would see reductions of almost 120,000 metric tons of CO₂e and save more than \$24 million in energy costs annually.

Leveraging the Clean Energy Partnership. The partnership between the City and its two utilities, Xcel Energy and CenterPoint Energy, provides a unique approach to help the City reach its Climate Action Plan and Energy Vision for 2040 goals, which include reducing energy costs and greenhouse gas emissions. Through their collaborative relationship, Xcel Energy developed the Xcel Benchmarking Tool facilitating automatic electric data transfers, the utilities share data on participation in their conservation programs and the City shares building stock information. The partnership also provides unique opportunities to leverage the utilities' expertise in utilizing existing and piloting new conservation programs with buildings identified from the benchmarking data.

Facilitating Greater Market Uptake of Transparent Building Performance Data. Benchmarking and disclosure makes previously unknown building performance transparent, thereby allowing owners and managers to compare their building to peer buildings and compete in the marketplace using new metrics. The City is exploring ways of making benchmarking information more accessible to and usable by building owners and managers through digital mapping and other means.

Completing the Benchmarking Policy Phase-in. 2016 will bring the phase-in process of the benchmarking policy to an end with the final group of buildings set to publicly disclose data by the end of the summer. This will mark the start of full building performance transparency for large commercial buildings – an important piece of market information to drive energy efficiency in the city.

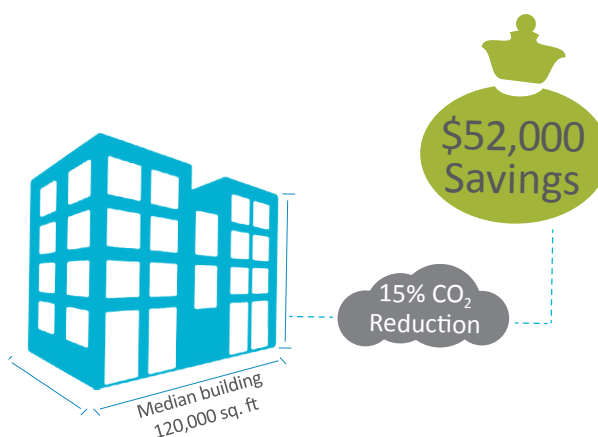


Figure 2. Potential savings from a median building achieving the building energy challenge

BACKGROUND ON THE MINNEAPOLIS BUILDING BENCHMARKING POLICY

The City of Minneapolis climate action goals and policies comprise a comprehensive set of strategies to reduce city-wide greenhouse gas emissions 30% by 2025 and 80% by 2050 from a 2006 baseline. Seeing that commercial and industrial buildings represent nearly half of city-wide emissions, policymakers recognized that lowering emissions within this sector is a vital part of achieving long term climate goals.

Benefits of Benchmarking

Encourages Energy Efficiency Actions. The Energy Efficiency Indicator survey from the Institute for Building Efficiency showed that buildings conducting energy management methods such as benchmarking took approximately three times as many energy efficiency actions as those that had not applied energy management practices.¹

Promotes Energy Savings in Existing Buildings. Results from New York City's benchmarking program show 5.7% energy savings from 2010 to 2013, and San Francisco's program revealed a 7.9% reduction in energy use between 2010 and 2014. As the Minneapolis program matures, similar results are anticipated.²

Improves building value. Buildings that are benchmarked have the information necessary for well-known high performance building certifications such as ENERGY STAR, a market recognized sign of high efficiency. Studies show buildings with ENERGY STAR certification can achieve higher rental premiums of 2% to 13%.³

Supports Local Jobs. Energy management and retrofit industries cannot be outsourced. As benchmarking provides efficiency transparency, and the market recognizes and rewards high performance, there is potential for local job creation.⁴

Recent Sustainability Milestones



The Minneapolis Climate Action Plan adopted in 2013 includes a goal to reduce the energy use of commercial and industrial buildings 20% by 2025, and mandatory commercial building energy benchmarking is a foundational strategy to achieve those energy efficiency targets. The Minneapolis commercial building benchmarking policy is covered by ordinance 47.190, which was adopted unanimously by the Minneapolis City Council in 2013. Private and public commercial buildings must annually benchmark their energy and water use and report this information to the City. Minneapolis was the first city in the Midwest to adopt a benchmarking and disclosure policy, and the 7th nationally, placing the City squarely in the vanguard among cities and states nationally.

The purpose of the ordinance is to use market forces – not performance or design mandates – to motivate building owners and managers to invest in energy and water efficiency improvements. Importantly, Minneapolis’ policy includes public disclosure of annual benchmarking results. This is intended to increase building owner, tenant, and public awareness of building energy and water use, allow building managers to see how they compare across the population, and drive targeted utility and energy service provider outreach to buildings with the largest opportunity for energy and water savings.

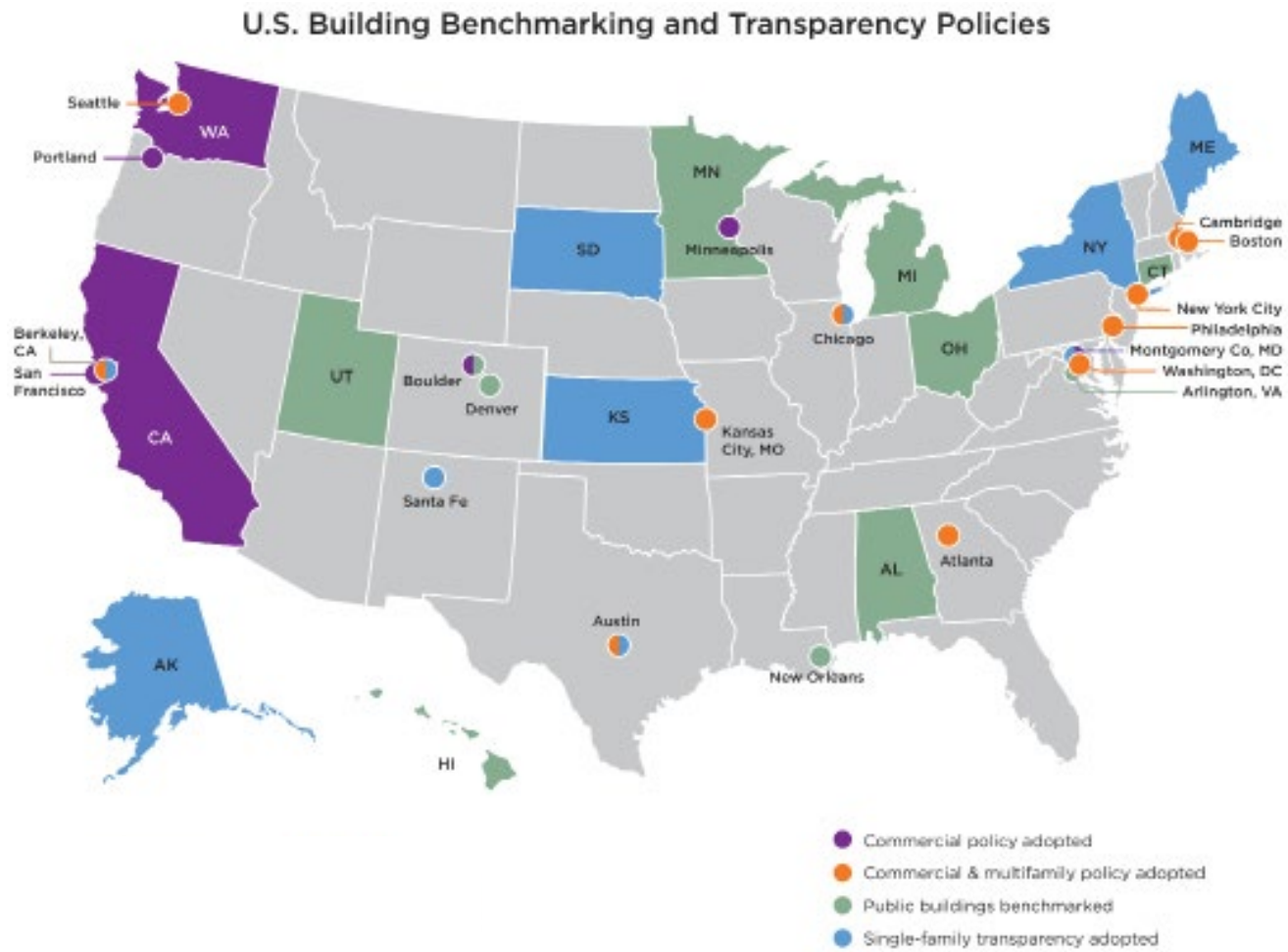


Figure 3. U.S. building benchmarking and transparency policies

Policy Overview

Ordinance 47.190 requires private commercial buildings 50,000 square feet and larger, and public buildings 25,000 square feet and larger, to be benchmarked, and the information reported to the City. The ordinance applies only to commercial buildings that are more than 50% occupied during a reporting year. New construction with certificate of occupancy issued less than two years prior are exempt, as are multifamily buildings, industrial buildings, and buildings that are experiencing qualifying financial distress. Although not required, the City of Minneapolis sought partnerships with Hennepin County, the Minneapolis Park & Recreation Board, and the Minneapolis Public Schools, of which all voluntarily submitted benchmarking results for many of their buildings.

The ordinance phased in benchmarking and disclosure over a four-year period, starting in 2013 with public buildings. After public buildings, the largest commercial buildings in the city (sized 100,000 ft² and above) made their initial submissions in 2014 for calendar year 2013 performance. Medium-sized commercial buildings (50,000-100,000 ft²) followed suit in 2015 for calendar year 2014 performance. Data

are not publicly disclosed until the second year of reporting for each of the two private building groups. By 2016, the policy phase-in for public and private buildings will be complete, and benchmarking and disclosure will continue for all building categories each year thereafter.

Benchmarked data is reported to the City via the Environmental Protection Agency’s ENERGY STAR Portfolio Manager software platform. This software analyzes whole property performance using simple metrics such as energy use intensity, a measure of energy use normalized over the building area, and the ENERGY STAR score, a 1 to 100 performance rating from low to high efficiency.

Building Category	2013	2014	2015	2016
Public over 25,000 ft ²	✓	✓	✓	✓
Private over 100,000 ft ²			✓	✓
Private 50,000-99,999 ft ²				✓

indicates years in which buildings are required to benchmark and report
✓ indicates years in which benchmarking data is publicly disclosed

Figure 4. Benchmarking and disclosure phase-in schedule

What is compliance?

Buildings comply with the benchmarking ordinance by submitting either an approved exemption or data submission. Data submissions must be of high quality to be valuable in motivating energy actions among building managers. Though an audit is an effective method used by other benchmarking cities for data verification, this requirement is not part of the Minneapolis policy. Instead, buildings must pass basic data quality standards by including the following:

- Electricity > 0
- Heating fuel > 0
- Water > 0
- EUI > 25 kBtu/ft² and < 400 ft²
- Area < +/- 25% of tax assessor value
- Building and Property IDs

Buildings that pass basic data checks are deemed compliant. Submissions that fail these checks are deemed partially compliant and are not included in report analysis. Buildings not in compliance by year two receive citations and fines.

BUILDING CHARACTERISTICS

The 429 buildings analyzed in this report include 180 private buildings greater than 100,000 ft² in size, 78 private buildings between 50,000 and 99,999 ft², and 258 private buildings and 169 public buildings, which are owned by the City of Minneapolis, Hennepin County, Minneapolis Public Schools, and Minneapolis Park and Recreation Board.

Among both types of buildings, offices make up the greatest percentage of buildings in the report at 25%, and also represent the largest building type by area at 39% of the benchmarked buildings by property type. The second most common property type is K-12 Schools. However, by square footage parking ramps represent the second largest property type by total area.

Only 57% of buildings could receive an ENERGY STAR score, since scores are only available for 21 out of the more than 80 property types on record in Portfolio Manager.

Building Age. Benchmark buildings were built between the years 1881 and 2012. The median build year is 1972 with the majority having been built in the later part of the 20th century.

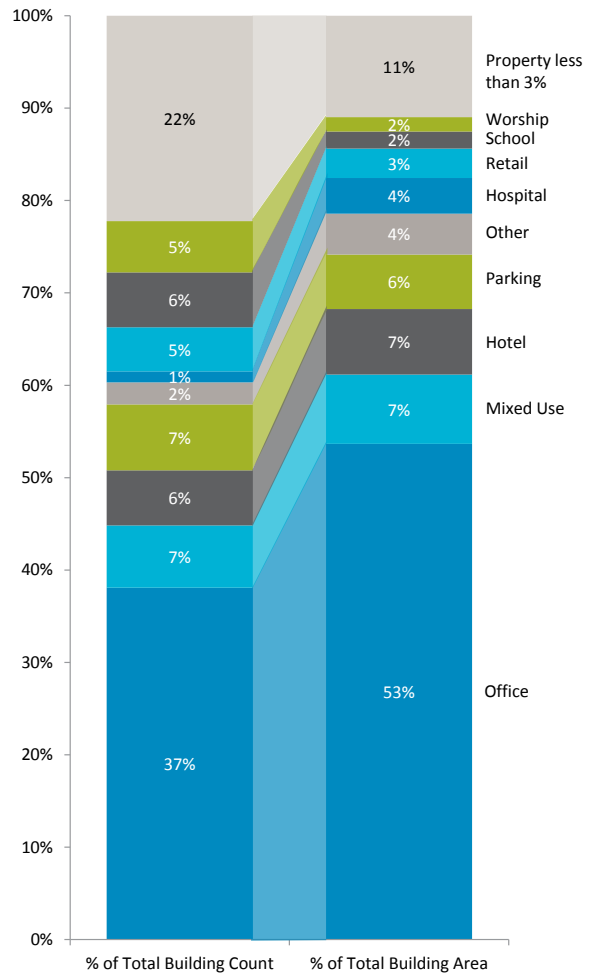


Figure 5. Count of buildings with compliant submissions

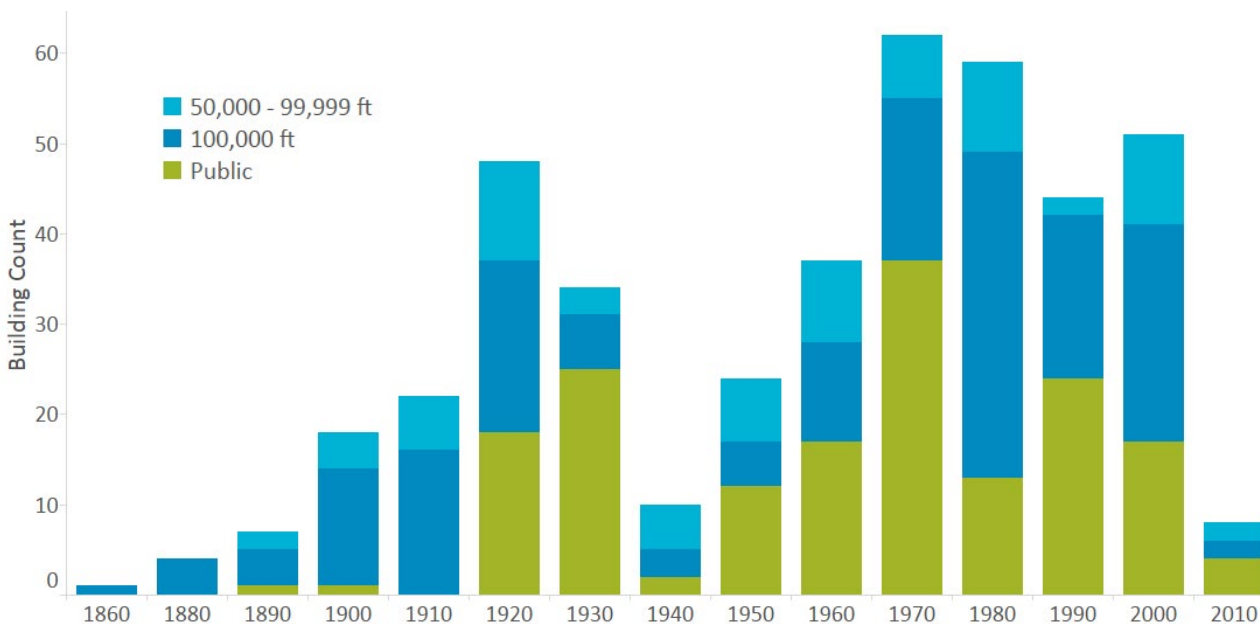


Figure 6. Property type composition of benchmarked buildings by count and building area

Building Location. Geographically, the majority of benchmarked buildings are concentrated downtown, the City's commercial core. The bulk of those are private buildings greater than 100,000 ft². Medium-sized private buildings (50,000-99,999 ft² in area) are common in neighborhoods in and close to downtown. Since many neighborhoods contain a park, a school, or both, public buildings are more evenly dispersed throughout the city.

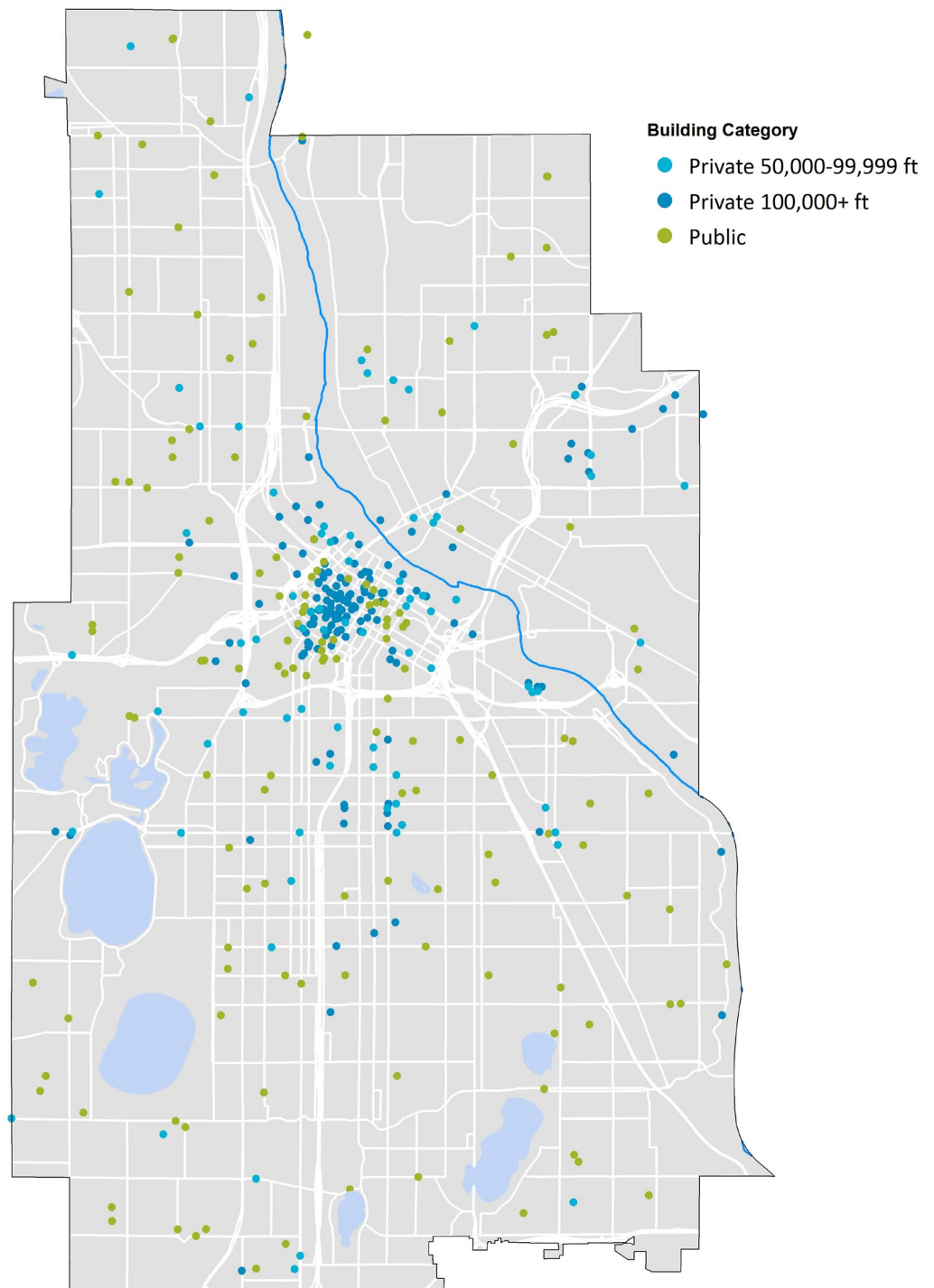


Figure 7. Map of benchmarked buildings by category

Compliance and Data Quality

High compliance and data accuracy are critical for understanding building energy performance in Minneapolis and for driving energy and water efficiency actions. Reliable data where the focus of outreach is the early years of policy rollout.

In this third round of benchmarking, the benchmarking team’s enhanced outreach lead to an improved response rate of over 90% – a 3% increase over the previous round. Building responses were comprised of compliant submissions, compliant exemptions, and partially compliant submissions (See Background on Minneapolis Benchmarking Policy section for an explanation on compliance.) Of all private building submissions, 89% had good data quality and were

deemed compliant — a significant improvement from 75% in calendar year 2013.

Thirty-five buildings were deemed partially compliant due to violations of data quality standards. Common violations included:

- unrealistic EUI
- missing electric meter data
- missing heating meter data
- floor area outside the +/-25% variance of City Tax Assessor value

Though not used in energy analysis, 95% of private buildings successfully reported water data for 2014, a substantial jump from 75% the year prior.

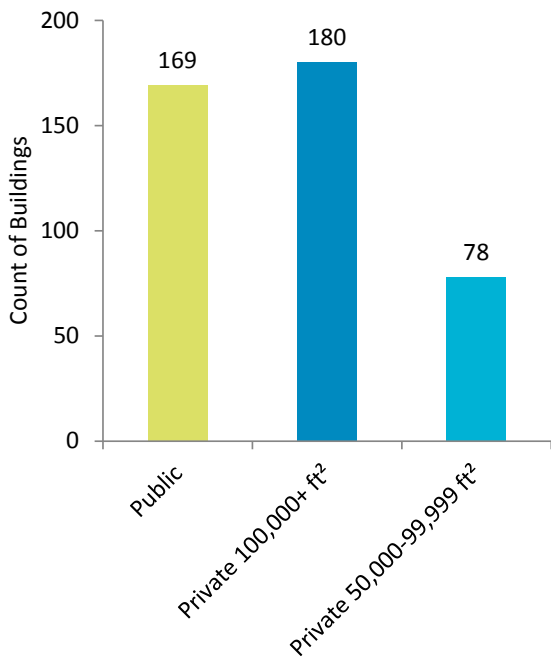


Figure 8. Count of all private and public buildings by response type

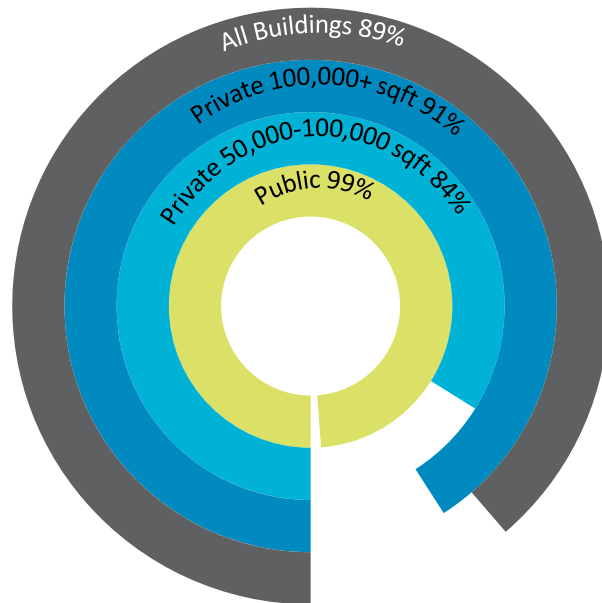


Figure 9. Percent of compliant submissions by building category

Outreach and Training

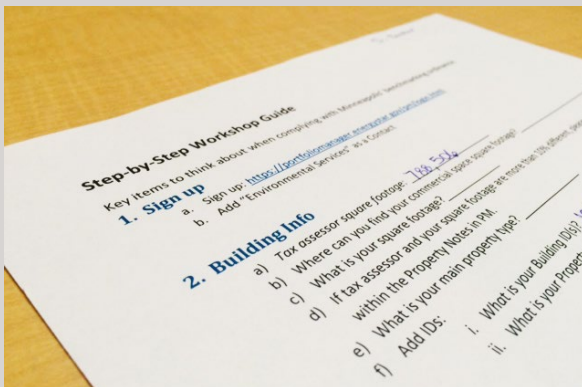
Success of the benchmarking program depends on building owners' and managers' awareness of the ordinance and of the process to benchmark building energy. To that end, the City of Minneapolis partnered with the Center for Energy and Environment (CEE) on outreach and training to drive high data quality.

Taking lessons from previous reporting rounds, the benchmarking program team strove to improve participation and data quality by streamlining communication, expanding outreach modes, and simplifying the helpline process. More specifically, attention was directed to enhance websites, develop newsletters and scorecards, publish data quality standards, and provide online meeting screen sharing to augment helpline assistance.

Building owners received three mailed notices in the first half of 2015, informing them of the June 1st reporting deadline as well as directing them to training resources. In addition, the outreach team developed news material for community distribution and worked with Minneapolis Building Operators and Managers Association, Lake Street Council, and other neighborhood business associations to include announcements in their communications. Buildings benchmarking for the second time ($\geq 100,000\text{ft}^2$ in size) also received email notices of the deadline and available training.

The team conducted two 2-hour in-depth training workshops in the months prior to the deadline, offered online user guides, and operated a helpline for email and phone questions. When answering technical questions, CEE often used GoToMeeting, an online, screen-sharing platform, which provided a more efficient and effective communication mode. Buildings requiring additional assistance were directed to RETAP (Retired Technical Assistance Program, administered by the Minnesota Pollution Control Agency), which assisted 50 buildings in total.

Future outreach and training will continue to emphasize data quality standards, and the team will continue to refine its data cleansing processes. An expected source for data improvements is Xcel Energy's new benchmarking portal, which provides streamlined methods for automatic electric data collection into Portfolio Manager.



Helpline calls	425
Helpline emails	630
Workshops	2
GoToMeetings	41

MINNEAPOLIS BENCHMARKING RESULTS

Energy Performance

Public Buildings

Buildings from the City of Minneapolis, Hennepin County, Minneapolis Public School, and Minneapolis Park and Recreation are analyzed using two whole building performance metrics: ENERGY STAR scores and site energy use intensity. Because ENERGY STAR scores are designed to accommodate the most common commercial building types (offices, hotels, schools, etc.), scores are often unavailable for the unique property types of public buildings such as convention centers, libraries, public safety facilities, and parking ramps. In Minneapolis, only 42% of public buildings consist of property types eligible for a score, (though, not all of these buildings provided sufficient data to earn scores).

In Minneapolis, 68 out of the 169 public buildings earned ENERGY STAR scores and, of those, 24 scored 75 or higher, putting them in the top quarter of buildings nationally and qualifying the buildings for ENERGY STAR certification. As a whole, Hennepin County has the highest median score (97) and largest amount of square footage in top-performing buildings. The City's highest performing building was City Hall with a score of 94. Minneapolis Public Schools earned a score of 98 for both Davis Center Headquarters and Green Central Park Elementary.

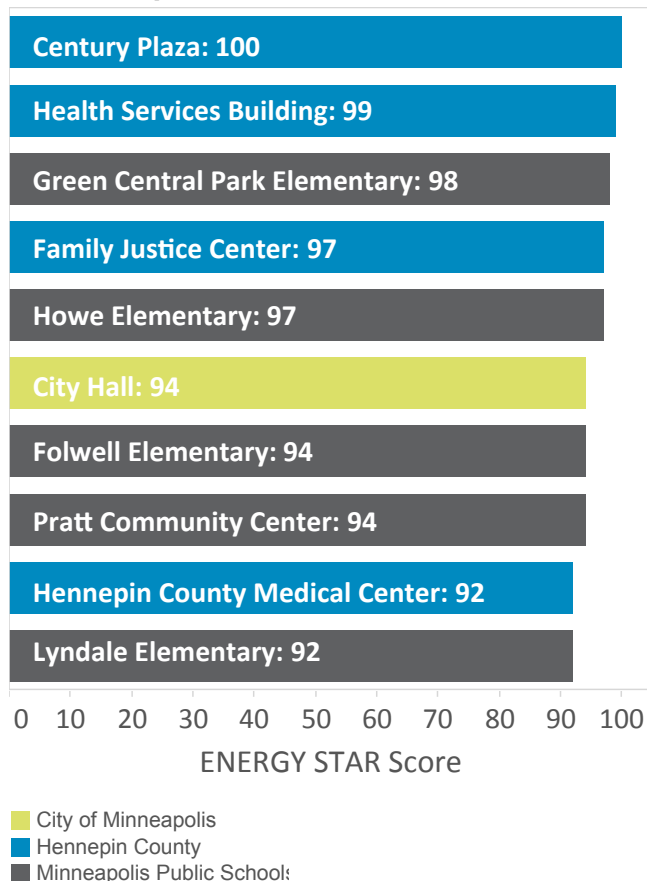


Figure 12. Top 10 performing public buildings

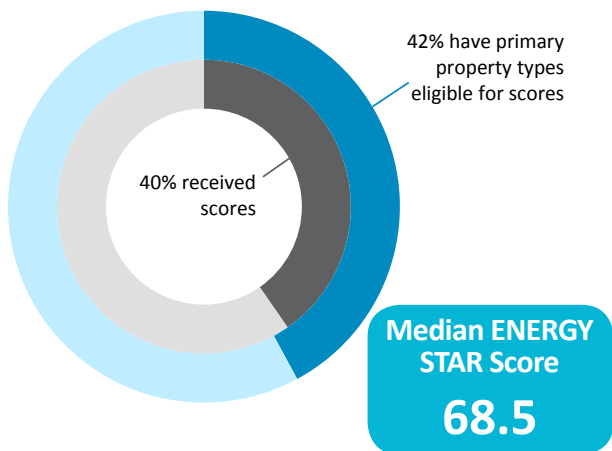


Figure 11. Percentage of public buildings eligible for and receiving ENERGY STAR scores as well as the median score those with scores



Recommissioning Leads to Great Savings at Hennepin County

Just as a healthy person eats right and exercises, facilities staff at Hennepin County strive to operate their buildings as efficiently as possible. Periodically though, even a healthy person needs a check-up to make sure all systems are running optimally and address any hidden issues. A building check-up, called retrocommissioning, is precisely what Hennepin County did at the aptly-named 1800 Chicago building.

For existing buildings, retrocommissioning seeks to “retune” the building to match the space uses and needs of today’s occupants so as to improve performance. During the assessment at 1800 Chicago, Hennepin County’s team found many opportunities for boosting efficiency that summed to big energy savings: leaky steam traps were replaced, boiler controls managing temperature, pumps, and run-time were updated, and the building automation system was upgraded, among other adjustments. As a result of these changes, the building reduced its annual weather-normalized energy use 36% from 2012 to 2014.

Just as a person’s lifestyle change can impact their health, changes in building use, scheduling, and equipment longevity impact building performance. Hennepin County’s retrocommissioning of 1800 Chicago shows just how advantageous a checkup can be.

Organization	Hennepin County
Address	1800 Chicago Ave
Primary property type	Office
kBtu reduction	4,493,016
% savings	36%
2014 Site weather-normalized EUI	79.3
2014 ENERGY STAR score	87

Minneapolis Public Schools have 56 properties with scores, and also the greatest range in performance, from Jordan Park School with a score of 8 to Green Central Park Elementary and the Davis Center with scores of 98. The median score at Minneapolis Public Schools is 68. No Minneapolis Park and Recreation Board buildings were eligible to receive scores.

Results for public building site energy use intensity (EUI), shown below, include all 169 public buildings. Public building site EUIs range widely from 7 kBtu/ft² to 340 kBtu/ft². As expected, the lowest energy users on a square foot basis are parking garages and ramps, as they are typically not heated or cooled. Low users with conditioned spaces include Century Plaza (34 kBtu/ft²), Lyndale Elementary (47 kBtu/ft²), and City Hall (65.7 kBtu/ft²). On the other end, the highest energy users per square foot are the City's water treatment and distribution campus, the County's Forensic Sciences Building, and Hennepin County Medical Center (247 and 182 kBtu/ft² respectively), the Minneapolis Park and Recreation Board's Parade Ice - North and South (232 and 202 kBtu/ft² respectively), and Minneapolis Public School's Hiawatha Elementary (226 kBtu/ft²).

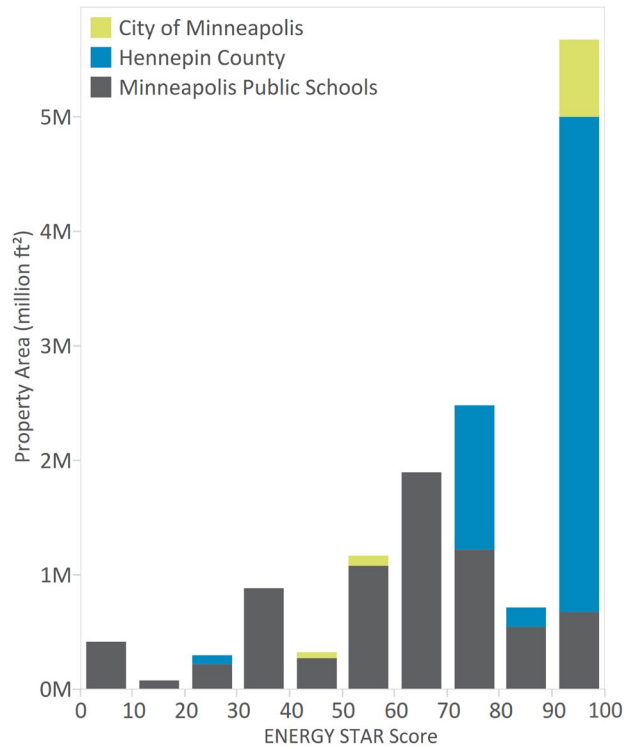


Figure 13. Cumulative public building property type area by ENERGY STAR score of 68 public buildings

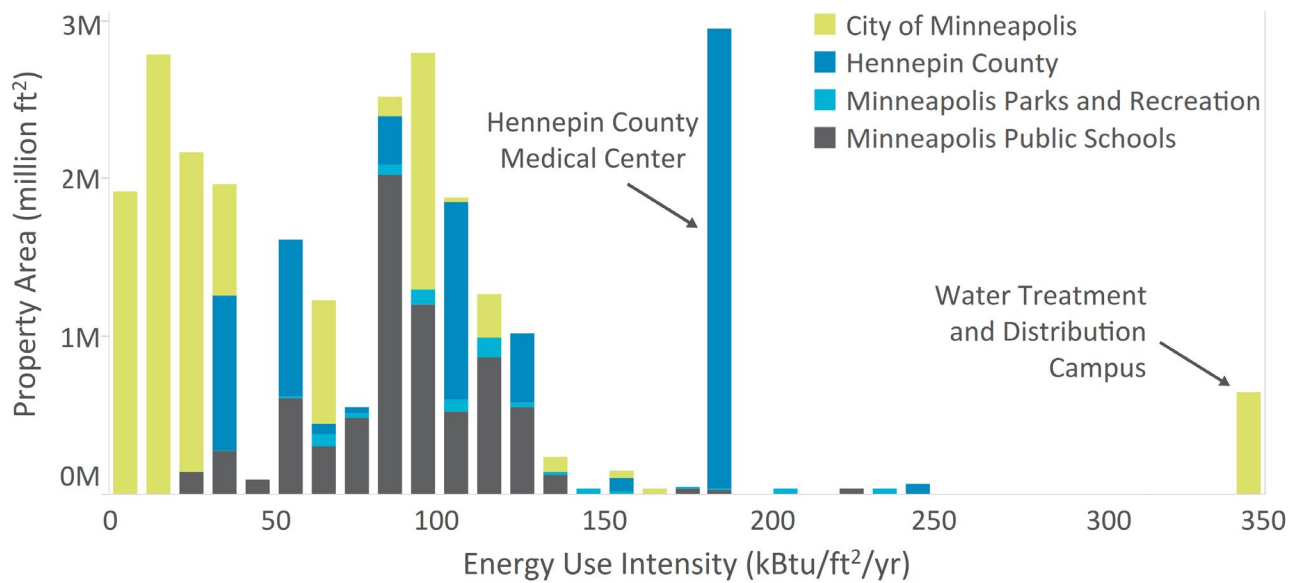


Figure 14. Cumulative public building property type area by energy use intensity (kBtu/ft²/yr) of 169 public buildings

Energy Use Trends in the First Three Years of Public Building Benchmarking

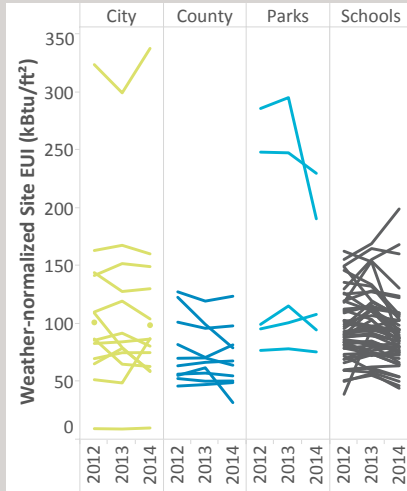


Figure 15. Weather-normalized site energy use intensity (kBtu/ft²) by public entity from 2012 to 2014

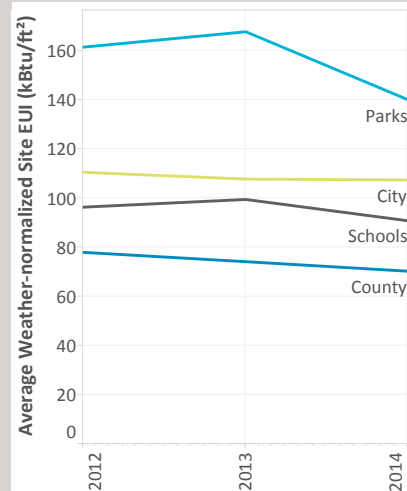


Figure 16. Average weather-normalized energy use intensity from 2012 by public entity

Year-over-year comparisons of the 99 public buildings consistently benchmarked from 2012 to 2014 show varying trajectories for individual buildings, whereas combined results by public entity trend constant or show slightly declining energy use. Average weather-normalized EUI by entity declined a modest 3 to 21 kBtu/ft², representing a percent change of 3% to 13%. The City achieved its 1.5% annual reduction goal from 2012 to 2013 for consistently benchmarked buildings by reducing total weather normalized EUI 3%, and also maintained consistent total weather normalized EUI from 2013 to 2014 with a 0% change.

Across all consistently benchmarked public buildings, median weather-normalized site energy use intensity decreased from 91 to 86 kBtu/ft² from 2012, while the average dropped from 100.6 to 94.1 (a significant finding outside the standard error range of +/- 5.4). In addition, total public building weather-normalized site EUI dropped almost 7% in the same time span.

Private Buildings

A total of 258 private commercial buildings submitted benchmarking results with data quality that was considered compliant. Individual building results for buildings 100,000 ft² and greater can be found in Appendix B. Individual results for buildings sized 50,000-99,999 ft² will be available for calendar year 2015 performance in 2016.

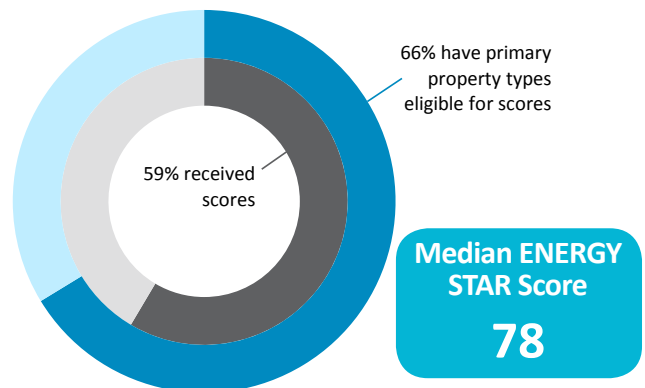


Figure 17. Percentage of private buildings eligible for and receiving ENERGY STAR scores as well as the median score those with scores

Among private buildings, 59% received ENERGY STAR scores, with a median score of 78. Offices showed the highest performance as financial offices and office property types earned median scores of 90 and 83.5 respectively. Meanwhile, hospital, worship, and medical office property types were on the lower end of the spectrum scoring 44, 45, and 46 correspondingly. The largest opportunities for energy savings were generally found among properties with the largest area and lowest scores. A sizable building area of roughly 1.5 million ft² in hospital and hotel properties scored below 50, indicating great potential for energy savings.

There is a wide range of site EUIs, stretching from 3 to 370 kBtu/ft², strongly associated with a building's property type. On the low end of the spectrum, parking structures use very little energy, typically less than 25 kBtu/ft², since they are often unconditioned spaces. Following parking facilities, Minneapolis boasts some efficient offices with EUIs in the 40-60 range, which falls below the national office median EUI of 67.3 and is notable due to the Minneapolis' cold climate. On the opposite end, healthcare property types continue to consume the highest energy per square foot. Four of the buildings within the top six EUIs are two specialty hospitals, one hospital office, and one general hospital, and are significantly above the national median of 197 kBtu/ft² for hospitals. Other high-using properties include three supermarkets and groceries, which are also above the national median of 186 kBtu/ft² for this property type.

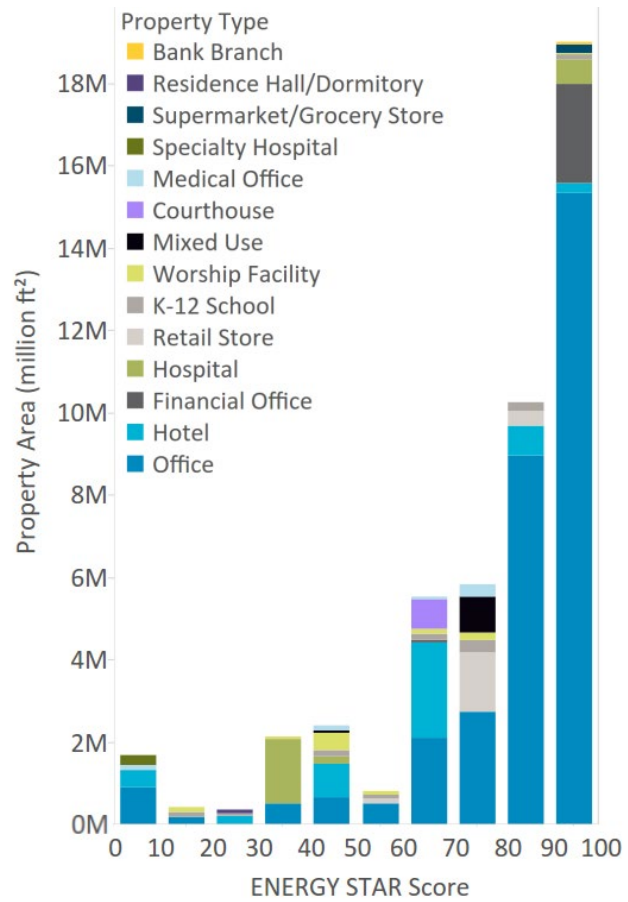


Figure 18. Cumulative private building property type area by ENERGY STAR score of 151 private buildings

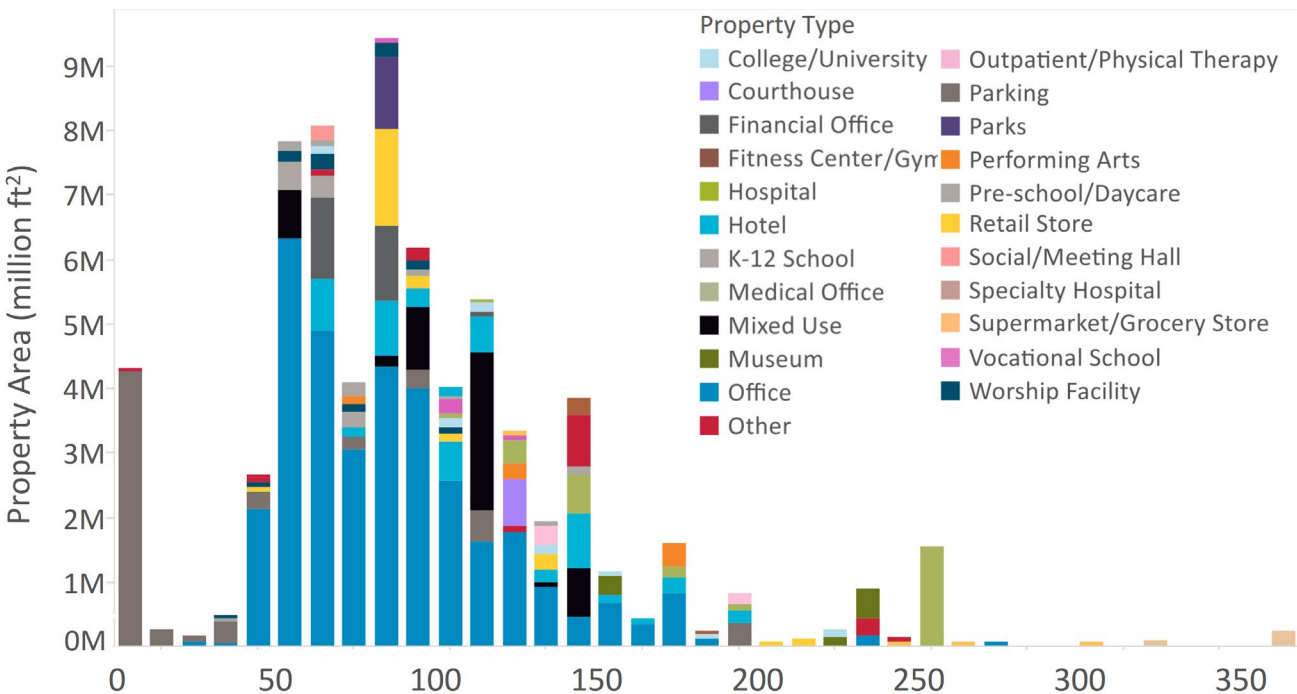


Figure 19. Cumulative private building property type area by energy use intensity (kBtu/ft²) of 258 private buildings

Energy Use Trends in the First Two Years of Private Building Benchmarking

Private commercial buildings greater than 100,000 ft² have now reported for two years, thereby providing a first opportunity to explore the performance trends of the largest private buildings in Minneapolis. Median ENERGY STAR scores dipped slightly from 82 to 80, while median site EUI and weather-normalized Site EUIs rose from 89 to 91 and 86 to 88 kBtu/ft² respectively. Overall, trend line analysis of weather normalized EUI indicates steady performance from 2013 to 2014, thereby providing a consistent baseline before the effect of performance transparency is underway.

Since the reporting date lags the performance year, building owners and managers had little opportunity to react to the benchmarking results and improve performance in calendar year 2014. In addition, since disclosure did not begin until August 2015, building owners had not yet experienced the full roll-out of the benchmarking policy. The full market cycle of understanding benchmarking results and then planning, making decisions, and investing in efficiency projects will require time.

	2013	2014
Median ENERGY STAR Score	82	80
Median Site EUI (kBtu/ft ²)	89	91
Median Weather Normalized Site EUI (kBtu/ft ²)	86	88

Other Findings

Year Built

The 2014 data show no clear relationship between a building's age and how well it performs. The finding is consistent across all buildings as well as within specific property types such as offices. It is furthermore comparable with analysis from 2013 and with other benchmarking cities. Asset quality and condition are often associated with age, but the relationship is not entirely causal. These factors, along with an asset's current operation, may influence energy performance more heavily than age alone.

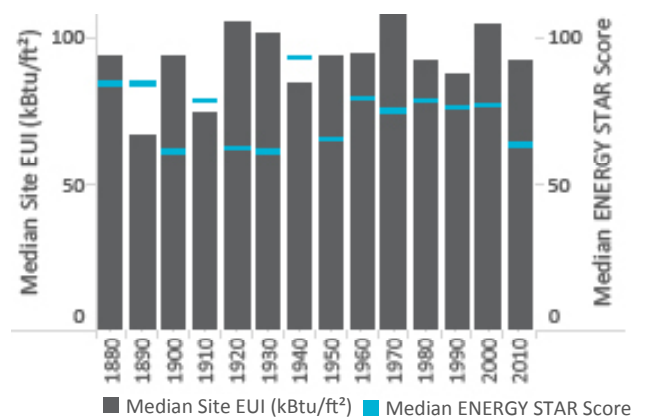


Figure 20. Median site EUI and ENERGY STAR score by decade built in all buildings

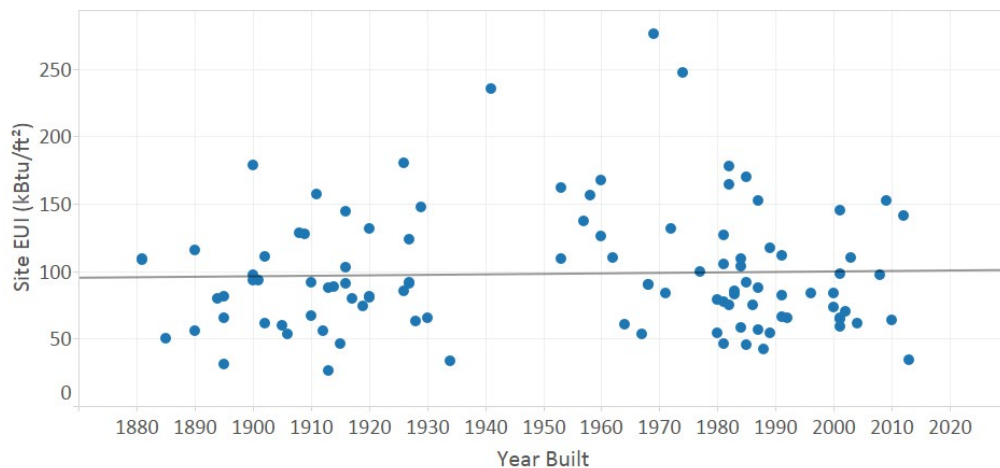


Figure 21. Energy performance by year Built in office buildings

Fuel Types Serving Minneapolis Buildings

Minneapolis buildings are served by electricity, natural gas, and a district energy system in downtown that supplies steam and chilled water to many buildings. In addition, some institutional campuses run their own steam systems. The proportion of a given property's energy use provided by these fuels, called the fuel mix, affects the energy costs and associated greenhouse gas emissions. As building managers look for energy savings opportunities, the fuel mix can inform which projects may be most effective at lowering utility spend and energy consumption.

Water Use

For buildings with usable data, median water use varied significantly by property type, where buildings with bathing and showering facilities have the highest water use per square foot. Minneapolis water intensity medians are below the national value for hospitals, medical facilities, and offices, and are higher than national medians in K-12 schools, retail stores, and worship facilities. Water use for Minneapolis Public Schools and the Minneapolis Park and Recreation Board were not analyzed due to a likely unit error and a lack of data respectively.

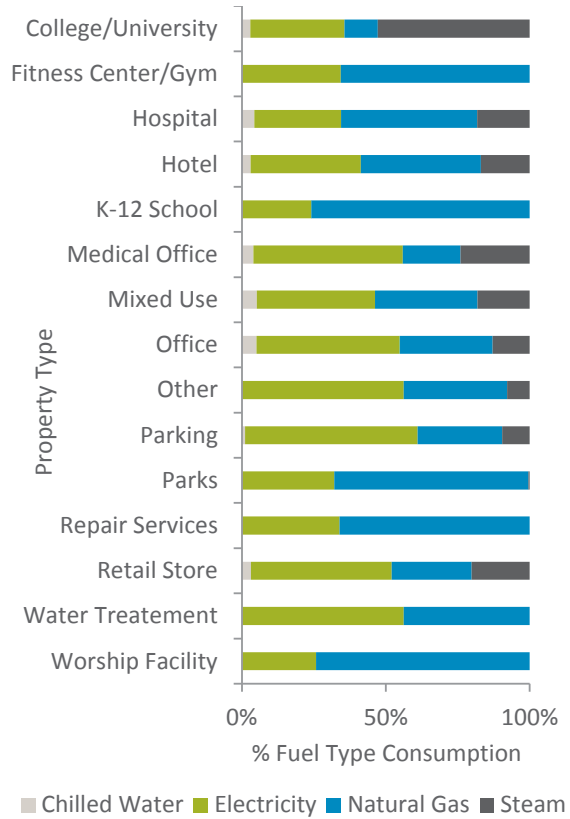


Figure 22. Average fuel type mix consumed of total site energy by the most common property type

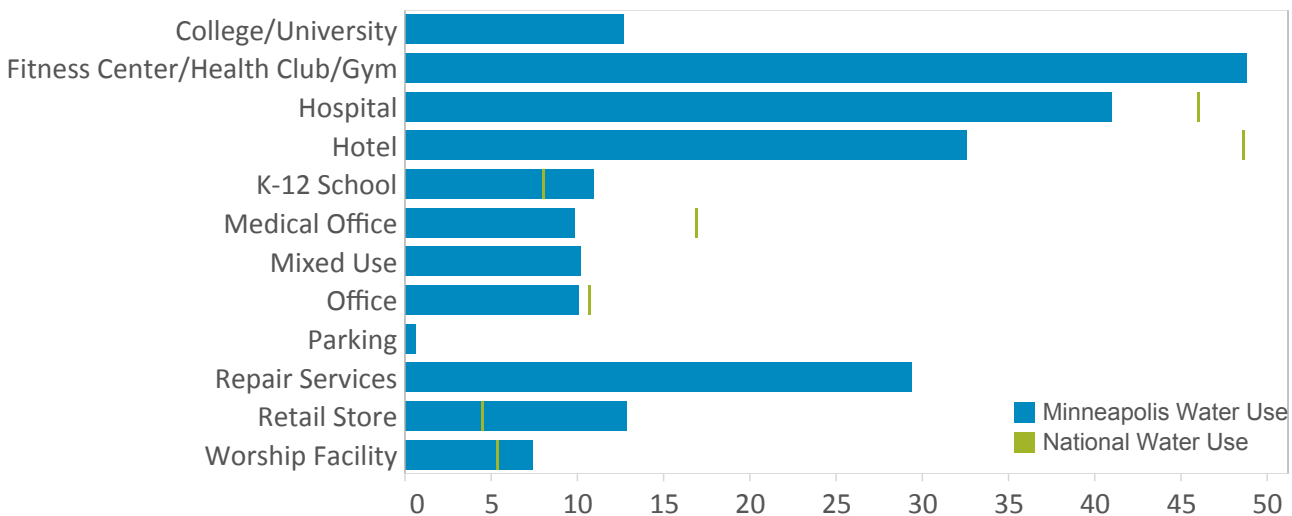


Figure 23. Median water consumption normalized by area for most common property types (types with more than five buildings) and compared to national median values where available⁵

NATIONAL BENCHMARKING RESULTS COMPARISON

Measured against seven cities⁶ with benchmarking ordinances, Minneapolis has by far the most intense heating season, which often demands higher energy consumption. However, energy metrics show that Minneapolis offices, hotels, and K-12 schools are relatively efficient in their climate with median site EUIs and ENERGY STAR scores similar to, and in some cases better than, those in other benchmarking cities.

Offices

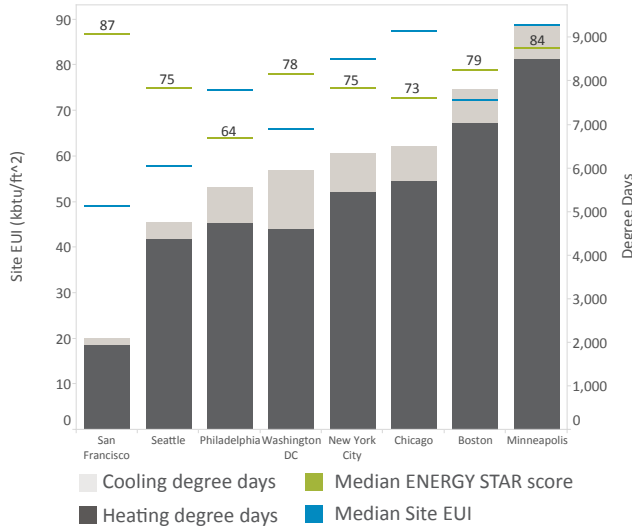


Figure 24. Eight city comparison of energy performance and climate metrics of office buildings^{6,7}

Hotels

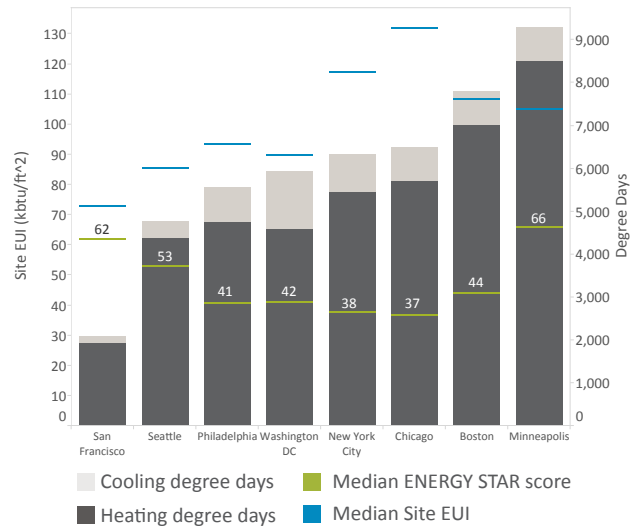


Figure 25. Eight city comparison of energy performance and climate metrics of hotels⁸

K-12 Schools

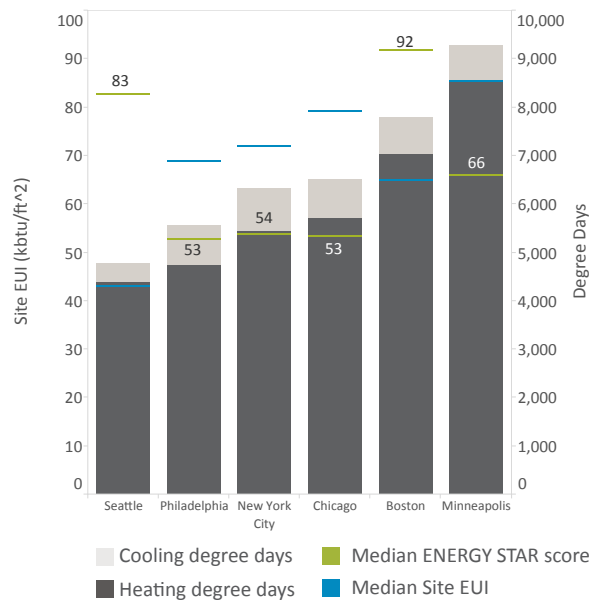


Figure 26. Six city comparison of energy performance and climate metrics of K-12 schools⁸

DRIVING ENERGY EFFICIENCY ACTIONS WITH BENCHMARKING DATA

The Minneapolis energy benchmarking program is focused on greater market visibility of building energy performance and, to that end, it is striving to make the information more available and easier to digest for building owners, managers, tenants, and the general public.

Scorecards. In 2015, the program developed Benchmarking Results report cards in an effort to leave the confusing realm of benchmarking data spreadsheets and call attention to the most valuable metrics. The energy use intensity measured in energy use per square foot and the ENERGY STAR score. The scorecard also provided directions for additional training opportunities and tips for improving data quality.

Energy Efficiency Workshops. Having whole building benchmarking data is useful, but combining this with energy action tips and ideas is even more impactful. The program is targeting building-type specific workshops to buildings with high potential for improvements. The first workshop focused on the unique energy opportunities in hospitals, and future plans include workshops for hotels and offices.

ENERGY STAR Certification Grants. Benchmarking results are crucially important for recognizing buildings with high performance and driving higher efficiency in the market. Using the annual results, the City, with support from the Minnesota Pollution Control Agency, is offering grants towards ENERGY STAR Certification. This nationally-recognized brand provides a stamp of high performance validating its building practices and signals to tenants that the building is operated and maintained in an energy-efficient manner. In 2014, 108 buildings received an ENERGY STAR score over 75, making them eligible for certification and recognition as an ENERGY STAR building. If a building has not been certified in the past 5 years, owners can receive assistance through the Minneapolis ENERGY STAR Certification Grant program.

Benchmarking Results
March 27, 2015

Next Compliance Deadline
Submit complete data by **June 1, 2015**

Free Workshops
May 6th
Register at: benchmarking.mncee.org

Contact us!
benchmarking.mncee.org
612-673-3091
mplsenergystar@minneapolismn.gov

Calendar Year 2014 Results will be Public
Thank you for providing your building energy and water use data to the City of Minneapolis.
Please remember that your calendar year 2014 building energy and water use data are due to the city by June 1, 2015. **This data will be made public in the fall of 2015.**

Shown below is your building's performance for calendar year 2013, based on the data that was submitted in 2014. Calendar year 2013 data will only be shared with you and not made public.

2013 Results for 100 Main Street

Energy Use Intensity (EUI): 89.3 kBTU/sqft/yr	Energy Star Score: 56

More information on EUI and ENERGY STAR scores can be found at: benchmarking.mncee.org/faq/

Data Quality Matters!
Ensure your data is accurate by checking that your building has:

- True gross square footage
- Accurate units for each energy type
- Meter data for the full calendar year

See the back of this page for a complete list of data fields the City will use to determine completeness of calendar year 2014 data.

Figure 27. Example of scorecard sent to all buildings

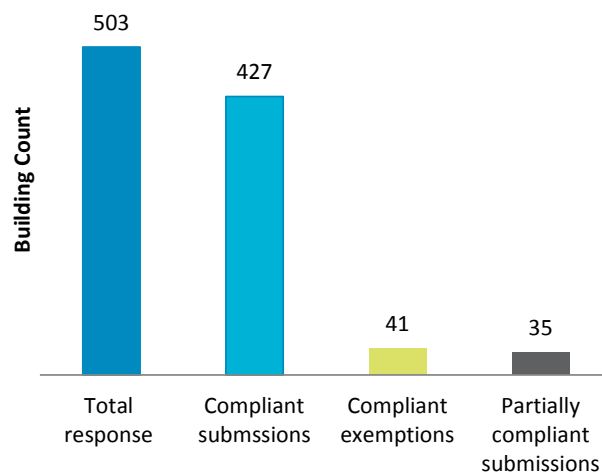


Figure 28. Count of buildings by response type

Minneapolis Building Energy Challenge. Beyond communicating results, the program seeks to motivate buildings to improve energy efficiency. Launched in October 2015, the Minneapolis Building Energy Challenge asks individual buildings to reduce greenhouse gas emissions 15% by 2020 – numbers that support the City’s Climate Action Plan. Private and public commercial buildings from schools to malls to office buildings have signed up to accept the challenge and their success stories are celebrated in City communications. At the kick-off event at City Hall, the benchmarking team sought to show that high building energy efficiency is possible across any building type. Accordingly, the benchmarking team identified six high performing buildings from the benchmarking data and awarded them for their performance. All of the award winners had undergone significant energy efficiency work and served as great examples to inspire others.

However, recognition is impossible without public disclosure. As mid-size private buildings become the final building category to disclose benchmarking results in 2016, more opportunities will be available for comparing all large commercial buildings in the city, identifying buildings with large savings opportunities, and showcasing high performers. Going forward, the Minneapolis energy benchmarking program will continue developing methods to increase building performance transparency so that building managers may make informed decisions about the best energy, water, and cost saving opportunities in their buildings.

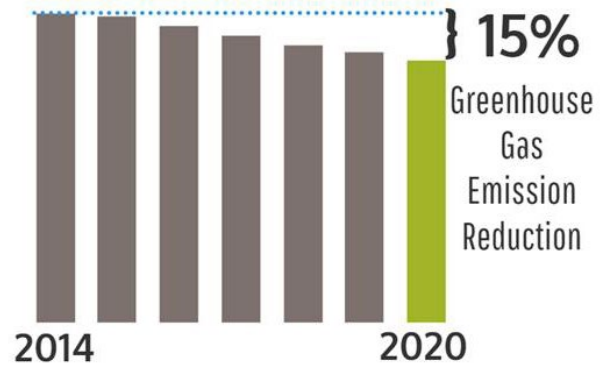


Figure 29. Building Energy Challenge 15% greenhouse gas reduction goal from 2014 through 2020

High Performing Building Award Winners:

- DeLaSalle High School • 33 South Sixth
- Doubletree Hotel • Minnehaha Academy South
- Broadway Place West • Residence Inn City Center



Figure 30. Councilmember Elizabeth Glidden, Broadway Place West’s Matt O’Brien and Max Currie, Mayor Betsy Hodges, and Xcel Energy Regional Vice President Laura McCarten. Broadway Place West won the Building Energy Performance Award for lowest EUI (42 kbtu/ft/yr) for the business category



Figure 31. Broadway Place West, winner of the Building Energy Performance Award for lowest energy use intensity (42 kbtu/ft/yr) for the business category

END NOTES

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- ² US DOE. "New York City Benchmarking and Transparency Policy Impact Evaluation Report." US Department of Energy. May 2015. <http://energy.gov/sites/prod/files/2015/05/f22/DOE%20New%20York%20City%20Benchmarking%20and%20Transparency%20Policy%20Impact%20Evaluation....pdf> (accessed Jan 2016)
- ³ SF Environment, ULI Greenprint Center. "San Francisco Existing Commercial Buildings Performance Report." ULI.org. 2015. <http://uli.org/wp-content/uploads/ULI-Documents/SFenergybenchmarkingreport.pdf> (accessed Jan. 2016).
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- ⁵ US EPA. (2012, June). Data Trends: Water Use Tracking. Retrieved January 2016, from ENERGY STAR Portfolio Manager: http://www.energystar.gov/ia/business/downloads/datatrends/DataTrends_Water_20121002.pdf?2003-40fb
- ⁶ City of Boston Energy Reporting and Disclosure Ordinance: <http://berdo.greenovateboston.org/#Analysis>
- 2015 Chicago Energy Benchmarking Report: <http://www.cityofchicago.org/city/en/progs/env/building-energy-benchmarking---transparency.html>
- New York City 2015 LL84 Energy and Water Data Disclosure (Data for Calendar Year 2014): http://www.nyc.gov/html/gbee/downloads/excel/2015_nyc_cy2014__ll84_disclosure_data.xlsx
- Philadelphia Energy Benchmarking Report 2014: http://50.87.248.194/~phillbui/wp-content/uploads/2015/09/MOS_BnchMrkRprt_R5fin_FINAL.pdf
- San Francisco Existing Commercial Buildings Performance Report 2010-2014: <http://sfenvironment.org/download/san-francisco-existing-commercial-buildings-performance-report-20102014>
- Seattle Building Energy Benchmarking Analysis Report 2013 Data: <http://www.seattle.gov/Documents/Departments/OSE/EBR-2013-report.pdf>
- Washington DC 2013 Private Building Benchmarking Dataset: <http://doee.dc.gov/node/970312>
- ⁷ All data is from reporting year 2014 except for Seattle and Washington DC, which is from reporting year 2013.
- ⁸ New York City K-12 school data includes private sector data only.
- ⁹ All data is from reporting year 2014 except for Seattle and Washington DC, which is from reporting year 2013.

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Page 24. LoopNet. (n.d.). Retrieved from 1300 Godward St. NE: <http://www.loopnet.com/Listing/15098679/1300-Godward-St-NE-Minneapolis-MN/>

APPENDIX A: GLOSSARY OF TERMS

ENERGY STAR Score

The 1-100 ENERGY STAR score was developed by the Environmental Protection Agency (EPA) and provides a metric for comparison with other similar buildings across the country. The score accounts for differences in climate, occupancy, and operating hours. A score of 50 represents median energy performance, while a score of 75 or better indicates a building is a top performer. The higher the score, the more efficient the building.

Energy Benchmarking

The process of comparing a building's energy performance against a standard, to itself over time, and to similar properties. ENERGY STAR Portfolio Manager was the software used to benchmark buildings in this report.

Energy Use Intensity (EUI)

The metric used for comparing buildings in Energy Star, EUI expresses a building's energy use relative to its size. In this report it is expressed as kBtu/ft², and is calculated by taking the total energy consumed in a year (in kBtu, thousand british thermal units) and dividing it by the floor area of the building (in ft², square feet). The lower the kBtu/ft², the lower the energy consumption.

Site EUI

Site EUI represents the amount of heat and electricity consumed by a building as reflected in utility bills. This is a relevant metric for facility managers to understand how a building's energy use has changed over time. However, site EUI does not account for the environmental impacts of transmission and delivery of energy. Site energy sources for public buildings in this report include electricity, natural gas, chilled water, and steam.

Source EUI

Source EUI represents the total amount of raw fuel that is required to operate the building. Because it incorporates all transmission, delivery, and production losses, source EUI values are always greater than site EUI values.

Total GHG Emissions (MtCO₂e)

The metric used in this report for greenhouse gas emissions represents a million metric tons of carbon dioxide equivalents. Equivalent CO₂ (CO₂e) is a universal standard measurement for greenhouse gasses such as and their ability to trap heat in the atmosphere. These greenhouse gasses include carbon dioxide, methane, nitrous oxide, and chloroflourocarbons. Greenhouse gas emissions for buildings are calculated using the ENERGY STAR Portfolio Manager Methodology for Greenhouse Gas Inventory and Tracking Calculations.

Weather normalization

Energy use is adjusted to account year-to-year weather differences, allowing for comparison of a building to itself over time. Through this procedure, the energy in a given year is adjusted to express the energy that would have been consumed under 30-year average weather conditions.

APPENDIX B: RESULTS FOR INDIVIDUAL PRIVATE BUILDINGS ≥ 100,000 FT²

Address	Postal Code	ENERGY STAR Score	Primary Property Type - Self Selected	Floor Area (Buildings & Parking) (ft ²)	Year Built	Total GHG Emissions (Metric Tons CO ₂ e)	Site EUI (kBtu/ft ²)	Weather Normalized Site EUI (kBtu/ft ²)	Source EUI (kBtu/ft ²)	Weather Normalized Source EUI (kBtu/ft ²)
1 Twins Way	55403	Not Available	Other - Entertainment/Public Assembly	1127632	2010	14714	82.9	81.9	205.1	203.9
100 6th St North	55403	94	Office	457678	1906	3777.9	53.7	50.8	130.5	127
100 Washington Ave S	55401	96	Office	770894	1980	4578.1	54.4	50.4	115.9	111.2
100/150 South Fifth Street	55402	92	Office	1420153	1984	11002.6	57.9	54.6	147.7	144.2
1000 LaSalle Avenue	55403	Not Available	College/University	165516	1992	2616	130	126.3	256.5	252.4
1001 Marquette Ave.	55403	41	Hotel	687758	1992	11013.9	145.7	141.4	266.6	262.2
105 5th Ave S	55401	Not Available	Office	115584	1890	1299.4	116.1	111.7	236.4	231.7
109 South 7th Street	55402	89	Office	195308	1927	1728.4	90.7	87.4	148.1	144.1
11 4th Street South	55401	Not Available	Parking	200500	1966	305	72.4	70.2	227.4	220.3
110 5th Street North	55403	50	Office	205435	1916	3418.8	144.1	142.8	272.5	271.1
1101 Harmon Place	55403	Not Available	College/University	158000	2003	2317.2	105.5	103.1	233.7	231.1
1101 LaSalle Ave	55403	97	Hotel	220390	1987	1458.3	66.5	61.4	121.2	114.3
111 Third Avenue South	55401	90	Office	109190	1890	946	56	53.4	147.8	145
111 Washington Ave S	55401	Not Available	Office	432830	1987	13040.1	152.1	150.7	462.1	460.5
120 S 6th st.	55402	Not Available	Office	588537	1960	7816	126.3	121.5	241.8	236
1200 Marquette Ave	55403	45	Worship Facility	124000	1897	850.9	67.1	61.2	118.9	112.6
1200 Washington Avenue S	55415	2	Office	176333	1941	5474.2	235.2	235.2	738.5	738.5
121 S 8th St	55402	71	Office	579622	1981	7857.3	126.8	122.2	249	243.5
1220 Marshall ST NE	55402	68	Office	100834	1908	1375.8	128.3	121	228.4	221

1221 Nicollet Mall	55403	78	Office	168245	1983	1395.1	83	77.8	170.8	165.3
1300 Godward St. NE	55413	98	Office	193180	1988	1313.7	42	40.7	117.6	116.2
1300 Nicollet Mall	55403	68	Hotel	867136	1980	8713.8	82	79.2	163	159.8
1300 Olson Memorial Hwy	55411	Not Available	Pre-school/Daycare	130000	1970	985.7	59.8	57.1	123.3	120.4
1313 Nicollet Mall	55403	69	Hotel	282000	1962	3019.7	95.3	89.9	181.3	175.9
1330 Industrial Blvd NE	55413	Not Available	Hotel	164000	1979	2463.9	145.6	139.6	252.9	245.9
15 South 5th Street	55402	94	Office	178008	1916	1296	90.9	82.4	129.1	120.2
1500 Washington Ave S	55454	63	Hotel	195000	1984	2282.4	104.9	98.8	194.3	186
1518 Chestnut Avenue	55403	Not Available	Mixed Use Property	378425	1932	5645.7	147.3	Not Available	250.9	Not Available
1520 New Brighton Blvd	55413	57	Retail Store	111756	1997	1716.3	106.1	99.5	244.8	237.2
16 9th St S	55402	Not Available	Fitness Center/Health Club/Gym	120000	1990	2143.8	141.1	136.7	290.5	285.9
1601 W River Rd	55411	43	Office	117805	2009	1805.7	152.4	144.2	259.3	249.6
1650 NEW BRIGHTON BLVD	55413	82	Retail Store	134918	1997	1871.6	87.3	83.8	218.4	214
20 Washington Ave	55401	97	Office	212724	1964	1829.9	60.5	58.2	136.7	133.9
200 S. 6th St.	55402	96	Office	1751374	1981	12381.2	45.9	44	133	130.7
201 S 11th St	55403	80	Hotel	567560	2007	3166.3	65.9	63.3	109.5	106.6
2025 East River Parkway	55414	Not Available	Other - Specialty Hospital	103570	1990	3592.4	320.7	314.3	579	568.4
2101 Kennedy St NE	55413	Not Available	Office	159980	1919	Not Available	74.6	72.2	111.3	109
2101 Summer St NE	55413	Not Available	Parking	190675	2002	129	3.3	3.2	10.3	9.9
212 3rd Avenue N	55401	97	Office	251465	1885	1619.5	50.4	48.3	104.6	102.4
2121 E Lake St	55403	Not Available	Fitness Center/Health Club/Gym	135000	2000	2490	142.1	136.1	298.8	292.5
215 4th Street	55401	24	Hotel	200000	1906	3518.7	133.1	126.8	282.4	272.2
2215 Park Avenue	55407	44	Hospital (General Medical & Surgical)	165169	1987	3289.4	176.4	172.2	330	326

2215 Park Avenue	55407	Not Available	Parking	174216	1987	220.6	6.2	5.9	19.4	18.6
222 South 9th Street	55402	87	Office	1035692	1985	9725	91.8	88.4	174.6	170.4
224 5th ST S	554020000	Not Available	Other	812848	1920	19397.7	141.7	138.6	371.9	368.5
225 South Sixth Street	55402	95	Office	1872031	1992	17297.9	65.4	62.9	165.5	162.5
2300 Chicago Ave	55404	Not Available	Other - Education	231555	1951	1694.6	77.5	71	125.3	118.1
2400 Third Avenue South	55404	Not Available	Museum	466675	1915	8783.5	235.4	228.4	333.9	326.9
2400 Third Avenue South	55404	Not Available	Museum	140333	2005	3222.7	226.8	224.9	388	386.5
2414 7th St S	55454	Not Available	Outpatient Rehabilitation/Physical Therapy	294230	1975	4608.6	136.8	137	256.3	256.8
2450 Riverside ave.	55454	1	Other - Specialty Hospital	231498	2011	9554.8	369.7	370.2	677.9	679.2
25 1st Street N	55401	Not Available	Parking	479718	1982	278	2.8	2.8	8.9	8.7
25 Grove St	55401	80	K-12 School	156000	1922	951.1	66.6	61.1	105.1	99.2
250 Marquette Ave	55401	95	Office	667160	1972	9811.2	131.3	128.6	284.6	281.4
2500 6th St S	55402	Not Available	College/University	150639	1924	2353.4	118.3	112.1	250.6	243.2
2500 E LAKE ST	55406	82	Retail Store	127233	1976	1758	83.1	78.8	216.3	209.8
2501 Stevens Ave	55404	Not Available	College/University	137463	1973	2913.4	223.4	214.9	358.3	348.5
2512 7th St. S	55454	Not Available	Outpatient Rehabilitation/Physical Therapy	173722	1945	3821.7	197.1	197.3	361.3	362
255 2nd Avenue South	55401	4	Office	528599	1900	18597.6	178.9	177.7	540	538.6
2650 Wells Fargo Way	55408	92	Office	228894	2004	2389	61.3	59.7	162.9	160.8
2701 Elliot Ave	55407	Not Available	Parking	1630889	1980	1748.6	5.2	5.2	16.4	16.2
2701 Wells Fargo Way	55408	99	Office	1024899	1912	4659	55.5	52.7	116.8	113.9
275 Market Street	55405	Not Available	Mixed Use Property	658786	1914	4565.1	54.9	52.5	128.5	125
2800 4th Ave South	55408	Not Available	Parking	555000	2001	916.9	8	7.8	25.3	24.3
2801 4th Ave South	55408	79	Office	241753	1983	3234.9	85.2	82.8	211	209

2828 Chicago Avenue South	55407	2	Medical Office	106239	2008	2220.7	192.7	189.5	603.8	593.9
2924 4th Ave S.	55408	48	K-12 School	158947	2007	1144.9	54.9	52.4	116.5	113.9
2929 Chicago Ave	55407	86	Office	444541	1927	5637.7	123.4	114.9	213.7	204.9
30 South 7th Street	55402	63	Hotel	555000	1990	Not Available	113.9	110.9	204.3	200.7
300 S 4TH STREET	55415	60	Courthouse	738583	1997	Not Available	123.8	118.4	233.2	226.3
3001 Broadway Street, NE	55413	90	Office	229449	2000	2968.8	73.6	72	209.3	207.6
301 4th Avenue South	55415	84	Office	150293	1881	1424.6	108.8	100.4	165	156.3
3033 Excelsior Blvd.	55416	Not Available	Office	165063	1953	2724.3	161.7	156.1	293.1	286.9
310 38th St E	55409	Not Available	Social/Meeting Hall	216300	1918	1394.2	67.6	62.4	110.2	104.7
3100 West River Parkway	55406	66	K-12 School	152000	1912	1055.4	70.2	64.3	117.8	111.2
310-4th Ave. So.	55415	79	Office	142688	1900	1378.4	97.4	91.9	163.8	158.1
3106 Nicollet Avenue	55411	Not Available	Transportation Terminal/Station	210000	1990	1772.5	95.8	89	146.6	139.4
311 2nd St SE	55414	Not Available	Mixed Use Property	366600	1968	6135.4	140.3	137.1	274.8	271.5
3200 West Lake Street	55416	Not Available	Strip Mall	111054	1988	2341.5	210.7	202.2	428.5	418.2
33 South 6th Street	55402	98	Office	1375717	1982	14838.9	75	72.9	171	168.5
330 2nd Avenue South	55401	79	Office	256622	1980	2483.1	79	73	170.2	160.8
331 Second Ave S	554101	97	Office	137823	1982	4303.4	177.9	172.8	485.7	480.3
333 S. 7th St. Suite 250	55402	91	Office	917687	1987	2088.8	87.9	83.4	172.9	167
333 South 12th Street	55403	44	Worship Facility	108000	1928	791.8	82.8	76.3	127.2	120.5
3433 Broadway Street, NE	551141904	98	Office	133266	1985	872.4	45.4	42.1	109.5	104.8
3660 Technology Drive NE	55418	Not Available	Office	169300	1985	4883.2	170.1	166.8	450.5	447.1
400 1st Avenue North	55401	83	Office	224808	1910	2440.1	91.9	88.1	176.6	172.1
400 4th Street South	55415	85	Office	243853	1881	2324.3	109.4	100.9	165.9	157.2
400 Stinson	55413	62	Office	253077	1920	4325.3	131.8	131.8	276.9	276.8

401 2nd Avenue North	55401	80	Office	104843	1894	1100.2	80	75.3	169.7	164.7
401 N 3RD ST	55401-1300	Not Available	Office	160188	1901	1142	93.5	88.2	205	199.3
405 South 8th. Street	55404	46	Hotel	136699	1924	1978.5	153	143.9	247.8	236.6
409 Marquette Avenue	55402	Not Available	Parking	146080	1953	186.4	6.8	6.3	19.7	18.4
412 South 3rd Street	55415	Not Available	Parking	545975	1983	792.1	7.1	6.7	22.2	21.1
414 Nicollet Avenue	55401	90	Office	373735	1967	4112.3	53.6	Not Available	168.2	Not Available
420 N. 5th Street	55401	88	Office	318595	1913	3514	87.7	81.7	186.7	179.4
4200 West River Parkway	55406	77	K-12 School	172770	1956	1075.6	54.1	49.8	102.8	97.8
4225 3rd Avenue S	55409	Not Available	Pre-school/Daycare	108000	1963	580.8	64.4	56.9	94.5	86.6
43 Main Street S.E.	55414	62	Office	102266	1900	1452.3	93.1	86.4	224.8	215.7
45 S 7th Street Suite 200	55402	79	Mixed Use Property	870775	1987	8409.1	95.5	91.5	186.4	180.7
45 South 8th Street	55402	82	Hotel	153040	1998	1255.4	77.2	Not Available	172.9	Not Available
50 S Tenth Street	55403	85	Office	541096	2001	6372	98.1	95.1	191.2	187.7
50 South 6th St.	55402	84	Office	1085348	2001	10429.3	64.5	61.7	197.2	189.8
500 S. 6th Street	55415	Not Available	Parking	146400	1935	87.5	15.2	15.2	47.8	47.8
500 Washington Ave S	55415	97	Office	286394	2001	2244.6	59.2	56.5	126.6	123.4
501 4th Avenue South	55415	Not Available	Parking	249120	1974	425.7	37.4	37.4	79.1	79.1
510 1st Avenue North	55403	Not Available	Office	138474	1910	1174.8	67	62	138	132.8
511 Groveland Ave	55403	60	Worship Facility	106412	1916	721.1	71.1	63.8	115.8	108.1
511 Kenwood Parkway	55403	16	K-12 School	120000	1902	1794.6	145.2	136.7	251.9	242.9
517 Marquette Avenue	55402	Not Available	Parking	252783	1999	385.3	43.7	41.6	97.2	94.2
527 marquette ave suite 500	55402	52	Office	142136	1929	Not Available	147.4	130.3	252.6	231.9
528 Hennepin Ave	55403	Not Available	Performing Arts	119970	1888	1324	78.2	72.3	176.6	167.9
555 Nicollet Mall	55402	Not Available	Mixed Use Property	113000	1991	Not Available	88.3	83.4	183	175.1

570 6th Avenue N	55411	Not Available	Other - Public Services	285160	1984	2385.6	97.1	89.4	146	137.9
60 South Sixth Street	55402	89	Office	683103	1991	6854.3	82.2	79.5	162.4	159.1
600 Stinson BLVD	554132620	Not Available	Other	250556	1920	10364.3	234.6	232.4	643.1	640.7
601 1st Avenue North	55403	66	Hotel	208721	2003	2913.7	104.2	100.7	224.5	216.7
6010 Lyndale Ave. S.	55419	Not Available	Retail Store	224051	1970	2608.7	132.9	122.4	210.8	199.7
606 24th ave s - Fairview St Marys Bldg	55454	99	Hospital (General Medical & Surgical)	596511	1945	9554.8	143.5	143.7	263.1	263.6
608 2nd Ave S	55402	64	Office	1518974	1916	16622.6	103.3	98.7	244.3	238.9
615 1st Ave NE	55413	91	Office	157227	1928	1432.5	62.8	59.5	145.2	141.7
615 Second Avenue South	554021902	7	Hotel	200503	2001	3830.9	195.1	184.8	322.3	310.7
625 Fourth Avenue South	55415	Not Available	Office	525000	1981	5492.7	77.4	Not Available	168.5	Not Available
651 Nicollet Mall	55402	34	Office	328126	1989	5612	117.7	113.2	263.7	255.7
700 Nicollet Mall	55402	76	Retail Store	1235912	1902	11080.3	84	79.7	148.2	143
701 Washington Ave	55401	31	Office	117500	1911	2055.3	157.3	147.2	290.6	280
706 Second Avenue South	55402	5	Office	112356	1926	3145.8	180.5	175.1	440.2	433.7
707 Second Avenue South	55474	90	Financial Office	1156997	1999	11305.2	83.4	78	185.8	180.1
708 North 1st St	55401	82	Office	127484	1905	147.8	59.5	56.3	141.3	137
710 S. 2nd Street	55401	80	Office	119155	2003	1206.5	110.3	106	174.4	169.5
711 Hennepin Ave	55403	Not Available	Mixed Use Property	101000	1972	987.3	94.9	85.2	176.2	164.7
721 Vineland Place	55403	Not Available	Museum	280000	1970	4362.6	155.8	149.8	310.3	301.5
730 Second Avenue South	55402	93	Office	409505	1968	2692.8	90.1	86.9	138.5	134.6
733 Marquette Avenue South	55402	93	Office	424583	1926	3936.6	85.3	82.6	152.5	149.4
80 South Eighth Street	55402	Not Available	Mixed Use Property	2463406	1973	28934.2	114.7	110.9	209.5	204.9
800 E 28th St.	55407	36	Hospital (General Medical & Surgical)	1560501	1926	41824.4	256.3	248.6	452.1	444.5

800 LaSalle Ave.	55402	76	Office	934285	1991	11510.8	112	109	236.1	232.5
800 Nicollet Mall	55402	84	Office	1183471	2000	12961.8	83.7	80.6	195.8	192.1
800 Washington Avenue N	55401	89	Office	382374	1902	3666.1	61.3	58.1	151.3	147.1
801 LaSalle Avenue	55402	Not Available	Parking	250000	1968	396.4	7.7	7.7	24.2	24.2
801 Nicollet Mall	55402	81	Office	777563	1968	6505	90.4	84.9	217.6	209
814 Ninth Street South	55404	Not Available	Parking	353080	1981	508.2	194.4	180.4	344.5	327.5
818 2nd St S	55415	Not Available	Performing Arts	360630	2006	4665	170	164.5	289.4	283.7
818 Dunwoody Blvd	55403	Not Available	Vocational School	225776	1914	2422.3	106.2	99.1	181.4	173.9
818 S. 2nd Street	55415	Not Available	Performing Arts	231642	2006	5403.5	120.3	120.4	358.8	359.3
821 Marquette Ave.	55402	1	Hotel	242879	1929	5797	175.8	173.8	449.3	447.2
825 Nicolette Mall	55402	70	Medical Office	299253	1923	4059.2	129.6	125.2	216.3	211
825 S 8th St	55404	15	Office	176529	1982	3885.3	164.6	158.8	354.9	348.8
88 6th Street	55402	65	Hotel	208442	2007	2663.6	105.2	102.7	209.2	206.8
90 South 7th Street	55402	92	Office	1497930	1987	13129.4	56.3	54.1	152.1	149.5
900 2nd Ave. South	55402	44	Office	439860	1984	6957.9	104	100.3	311.6	303.5
900 4th St N	55401	Not Available	Other - Lodging/Residential	130000	1860	1047.7	105.6	97.8	144.5	136.3
900 NICOLLET MALL	55403	70	Retail Store	185238	2001	2986.4	91.4	87.5	250.4	246.6
901 3rd Ave. South	55402	93	Financial Office	1266008	2002	10680.6	66.6	63.7	170.4	166.9
901 Marquette Ave	55402	88	Office	751583	1991	7798.1	66.5	63.8	177.6	173.8
910 Elliot Ave	55404	Not Available	College/University	117144	1900	806.1	64.6	60.6	115.2	110.9
910 LaSalle Avenue	55402	Not Available	Parking	210700	1954	225.5	5.7	5.4	16.5	15.6
920 2nd Ave. South	55402	80	Office	342765	1986	3670.8	75.3	71	204.9	197.1
921 Marquette Avenue	55402	Not Available	Parking	461314	1961	634	110.2	110.2	149.7	149.7

APPENDIX C: RESULTS FOR INDIVIDUAL PUBLIC BUILDINGS

Organization Name	Property Name	Address	Postal Code	ENERGY STAR Score	Primary Property Type - Self Selected	Floor Area (Buildings & Parking) (ft ²)	Year Built	Total GHG Emissions (Metric Tons CO ₂ e)	Site EUI (kBtu/ft ²)	Weather Normalized Site EUI (kBtu/ft ²)	Source EUI (kBtu/ft ²)	Weather Normalized Source EUI (kBtu/ft ²)
City of Minneapolis	10th and Hennepin Ramp	935 Hennepin Avenue	55403	Not Available	Parking	552000	1998	784.4	10.8	10	22.8	21.6
City of Minneapolis	10th and LaSalle Ramp	915 LaSalle Avenue	55403	Not Available	Parking	360000	2001	531.6	10.8	10.1	23.6	22.6
City of Minneapolis	City Hall	350 South 5th Street	55415	94	Office	680000	1895	5395.9	65.7	63.2	128.7	125.7
City of Minneapolis	City of Lakes	309 2nd Avenue South	55401	40	Office	47833	1958	847.9	156.6	149.5	293.6	285
City of Minneapolis	Currie Maintenance Facility	1200 Currie Ave North	55403	Not Available	Repair Services (Vehicle, Shoe, Locksmith, etc.)	171200	1980	1796.4	113.9	104.3	178.9	168.8
City of Minneapolis	Emergency Operations Training Center	25 37th Avenue NE	55421	Not Available	Office	42581	2010	337	63.5	59.6	129	123.7
City of Minneapolis	Federal Courthouse Ramp	333 3rd Avenue South	55415	Not Available	Parking	105000	1997	431.9	29.6	26.9	65.6	60.4
City of Minneapolis	Fire Station # 06	121 E 15TH ST	55403	Not Available	Fire Station	27160	1980	238.9	88.2	80.8	149	141.3
City of Minneapolis	Government Center Ramp	415 south 3rd Street	55401	Not Available	Parking	350000	1974	545.1	12.7	12.1	25.4	24.7
City of Minneapolis	Haaf Ramp	424 4th Street South	55415	Not Available	Parking	260000	1993	1139.2	34.9	32.6	69.5	66.7
City of Minneapolis	Hamilton School (Police Training)	4131 Dupont Avenue North	55412	Not Available	Office	41326	1960	662	167.7	160.5	273.7	264
City of Minneapolis	Harmon Ramp	25 South 11th Street	55403	Not Available	Parking	175000	2003	434	15.1	14.3	38.9	37.5
City of Minneapolis	Harriet Maintenance Facility	6036 Harriet Avenue South	55419	Not Available	Repair Services (Vehicle, Shoe, Locksmith, etc.)	53364	1959	395.3	82.1	75.2	128	120
City of Minneapolis	Hawthorne Ramp	31 North 9th Street	55403	Not Available	Parking	630000	1999	1633.3	21.5	20.8	42.3	41.6
City of Minneapolis	Hiawatha Maintenance Facility	1901 East 26th Street	55404	Not Available	Repair Services (Vehicle, Shoe, Locksmith, etc.)	51835	2010	809.6	89.2	87.3	243	241
City of Minneapolis	Hilton Ramp	1030 2nd Avenue South	55403	Not Available	Parking	400000	1992	965.4	11.8	11.2	36.9	35.3
City of Minneapolis	Leamington Ramp	1001 2nd Avenue South	55403	Not Available	Parking	700000	1991	965.9	13.9	13	23.1	21.9
City of Minneapolis	Mill Quarter Ramp	711 South 2nd Street	55403	Not Available	Parking	120000	2005	169.7	6.9	6.7	21.6	21.2
City of Minneapolis	Minneapolis Convention Center	1301 second Avenue South	55403	Not Available	Convention Center	1500000	1989	16082.6	90.5	86.9	171	166.6

City of Minneapolis	Orchestra Hall Ramp #1	1111 Marquette Avenue South	55403	Not Available	Parking	239000	1976	647.1	24.6	22	45	41.7
City of Minneapolis	Orchestra Hall Ramp #2	1111 Marquette Avenue South	55403	Not Available	Parking	148000	1989	203.1	6.7	6.4	21	20
City of Minneapolis	Plaza Ramp	117 South 12th Street	55403	Not Available	Parking	319000	1989	864.5	21.3	19.7	44	41.8
City of Minneapolis	Police Precinct #3	3000 Minnehaha Avenue	55406	Not Available	Police Station	33761	2005	484.9	110.1	103.4	232.5	224.4
City of Minneapolis	Police Precinct 4	1925 Plymouth Avenue North	55411	Not Available	Police Station	25319	1988	347.9	107.1	99.8	223	214.1
City of Minneapolis	Public Service Center	250 South 4th Street	55401	53	Office	93010	1957	1396.9	137.5	130.4	247.6	238.5
City of Minneapolis	Riverfront (Guthrie) Ramp	212 9th Avenue South	55403	Not Available	Parking	250000	2005	545.6	10.6	10.3	33.4	32.2
City of Minneapolis	Royalston Maintenance Facility	661 5th Avenue North	55405	Not Available	Repair Services (Vehicle, Shoe, Locksmith, etc.)	71029	1998	622.2	111.3	98.9	159.1	145.1
City of Minneapolis	TAD 4 Ramp	318 2nd Avenue North	55403	Not Available	Parking	450000	1993	1927.2	32.8	30.3	69.3	65.9
City of Minneapolis	TAD 5 Ramp	516 2nd Avenue North	55403	Not Available	Parking	618000	1989	1894.7	22.3	21.2	49.2	47.8
City of Minneapolis	TAD 7 Ramp	101 North 9th Street	55403	Not Available	Parking	1650000	1991	2753.5	9.8	9.5	26	25.6
City of Minneapolis	Traffic Maintenance Facility (300 Border)	300 Border Avenue	55405	Not Available	Other - Public Services	61416	1962	436.7	62	58.8	117.5	114.1
City of Minneapolis	Vineland (Walker) Ramp	727 Vineland	55403	Not Available	Parking	115000	2004	529	29.9	29.1	72.7	71.9
City of Minneapolis	Water Treatment and Distribution Campus	4500 Marshall Street NE	55421	Not Available	Drinking Water Treatment & Distribution	650000	1930	32206.8	348.7	338	792	780.8
Hennepin County	1800 Chicago	1800 Chicago S.	55404	87	Office	102815	1996	889	84.1	79.3	145.7	140.8
Hennepin County	Central Library	300 Nicolet Mall	55401	Not Available	Other	559507	2004	3146.2	52.5	49.3	117.4	113.6
Hennepin County	Century Plaza	330 south 12th st	55404	100	Office	984242	1934	2763.2	33.7	32	74.5	72.2
Hennepin County	Family Justice Center	110 S. 4th St.	55415	97	Courthouse	227422	1956	1612.6	57.7	55.1	115.8	113
Hennepin County	Forensic Sciences Building	530 Chicago Avenue South	55415	Not Available	Office	62602	1974	1346.7	247.4	230.1	368	347.2

Hennepin County	Government Center	300 S. Sixth	55487	79	Courthouse	1255134	1974	13118.4	103.2	98.3	196.7	189.9
Hennepin County	Health Services Building	525 Portland Ave South	55415	99	Office	198739	1989	1242.2	54	50.7	102	98.1
Hennepin County	Hennepin County Medical Center	701 Park Avenue	55415	92	Hospital (General Medical & Surgical)	2905169	1976	38197.2	182.6	178.5	271.5	266.4
Hennepin County	Juvenile Justice Center/Detention Center	626 S. Sixth	55415	Not Available	Prison/Incarceration	199219	1983	1868.7	85.2	81.9	154.2	150.3
Hennepin County	North Point Health and Wellness	1313 Penn Ave N	55411	83	Medical Office	67205	1995	645.4	66.1	64.3	153	151.1
Hennepin County	North Regional Library	1315 Lowry Avenue North	55411	Not Available	Other	38993	1971	320.6	75	68	136.9	128.7
Hennepin County	Public Safety Facility	401 4 Ave South	55415	Not Available	Prison/Incarceration	432776	2001	4763.6	128.8	123.9	209.7	203.8
Hennepin County	Whittier Clinic	2810 Nicollet Ave. South	55415	28	Medical Office	85034	2008	1164.4	154.7	150.6	319.4	315
Minneapolis Park and Recreation Board	Armatage Park	2500 57th St W	55410	Not Available	Fitness Center/Health Club/Gym	7097	1978	72.9	112.6	100.1	177.1	162
Minneapolis Park and Recreation Board	Audubon Park	1320 29th Ave NE	55418	Not Available	Other - Entertainment / Public Assembly	6177	1978	62.9	110.8	104.2	175.3	168.4
Minneapolis Park and Recreation Board	Bottineau Park	2000 2nd St NE	55418	Not Available	Fitness Center/Health Club/Gym	13760	2001	128.5	108.5	95.4	163	149.2
Minneapolis Park and Recreation Board	Brackett Park	2728 39th Ave S	55406	Not Available	Other - Entertainment / Public Assembly	5300	1979	39.8	59.8	54.8	122.2	115.9
Minneapolis Park and Recreation Board	Bryant Square Park	3101 Bryant Ave S	55408	Not Available	Other - Entertainment / Public Assembly	6300	1970	63.3	81.5	75.1	164	155.8
Minneapolis Park and Recreation Board	Corcoran Park	3332 20th Ave S	55407	Not Available	Other - Entertainment / Public Assembly	5855	1977	71.9	132.6	118.1	211	195.8
Minneapolis Park and Recreation Board	Creekview Park	5001 Irving Ave N	55430	Not Available	Other - Entertainment / Public Assembly	6068	1976	51.2	93.7	87.3	145.9	138.7
Minneapolis Park and Recreation Board	East Phillips Park	2307 17th Ave S	55404	Not Available	Other - Entertainment / Public Assembly	14564	2010	135.8	95.9	88.7	158.7	150.7
Minneapolis Park and Recreation Board	Elliot Park	1000 14th St E	55404	Not Available	Other - Entertainment / Public Assembly	7215	1961	72.8	106.2	93.4	172.5	158.1
Minneapolis Park and Recreation Board	Farview Park	621 29th Ave N	55411	Not Available	Other - Entertainment / Public Assembly	18688	1976	219.7	108.3	98.3	196.1	185.6
Minneapolis Park and Recreation Board	Folwell Park	1615 Dowling Ave N	55412	Not Available	Other - Entertainment / Public Assembly	13370	2001	150	71.9	68.8	177.1	173.8

Minneapolis Park and Recreation Board	Fuller Park	4800 Grand Ave S	55419	Not Available	Other - Entertainment / Public Assembly	6357	1976	56	94.8	88.1	151.3	144.1
Minneapolis Park and Recreation Board	Hiawatha School Park	4305 42nd St E	55406	Not Available	Other - Entertainment / Public Assembly	6613	1978	75.2	107.7	100.5	190.7	183.1
Minneapolis Park and Recreation Board	Keewaydin Park	3030 53rd St E	55417	Not Available	Other - Entertainment / Public Assembly	6314	1972	91	159.5	147.1	249.1	236.1
Minneapolis Park and Recreation Board	Kenny Park	1328 58th St W	55419	Not Available	Other - Entertainment / Public Assembly	2456	1962	50.4	207	192.4	348.1	332.9
Minneapolis Park and Recreation Board	Kenwood Park	2101 Franklin Ave W	55405	Not Available	Other - Entertainment / Public Assembly	5956	1983	46.6	80.3	73.7	133.1	125.6
Minneapolis Park and Recreation Board	Lake Hiawatha Park	2701 44th St E	55406	Not Available	Other - Entertainment / Public Assembly	3970	1977	68.4	138.3	124.3	280.9	252.2
Minneapolis Park and Recreation Board	Lake Nokomis Park	2401 E Minnehaha Pkwy	55417	Not Available	Other - Entertainment / Public Assembly	13769	1975	104.8	92.1	84.4	134.1	125.9
Minneapolis Park and Recreation Board	Linden Hills	3100 43rd St W	55410	Not Available	Other - Entertainment / Public Assembly	7930	1972	109.8	147.8	134.7	237.6	219
Minneapolis Park and Recreation Board	Logan Park	690 13th Ave NE	55413	Not Available	Other - Entertainment / Public Assembly	14294	1971	143.6	101	94.8	170.3	163
Minneapolis Park and Recreation Board	Longfellow Park	3435 36th Ave S	55406	Not Available	Other - Entertainment / Public Assembly	16396	1962	148.4	75.3	67.4	148.4	135.7
Minneapolis Park and Recreation Board	Loring Park	1382 Willow St	55403	Not Available	Other - Entertainment / Public Assembly	5164	1906	91.2	142.5	135.2	288.2	280.6
Minneapolis Park and Recreation Board	Luxton Park	112 Williams Ave SE	55414	Not Available	Other - Entertainment / Public Assembly	15400	1969	202.1	129.9	119.6	221.8	211
Minneapolis Park and Recreation Board	Lyndale Farmstead Park	3900 Bryant Ave S	55409	Not Available	Other - Entertainment / Public Assembly	2785	1977	48.1	182.8	164	295.8	273.8
Minneapolis Park and Recreation Board	Lynnhurst Park	1345 West Minnehaha Pkwy	55419	Not Available	Other - Entertainment / Public Assembly	15446	1971	123	90.7	82.7	138.4	130
Minneapolis Park and Recreation Board	Matthews Park	2318 29th Ave S	55406	Not Available	Other - Entertainment / Public Assembly	7846	1968	121.3	131.9	120.7	254.6	242.8
Minneapolis Park and Recreation Board	McRae Park	906 47th St E	55407	Not Available	Other - Entertainment / Public Assembly	7839	1955	105.1	144.9	126.8	230.5	205.6
Minneapolis Park and Recreation Board	Morris Park	5531 39th Ave S	55417	Not Available	Other - Entertainment / Public Assembly	4593	1956	37.8	84.6	75.6	140.1	130.5
Minneapolis Park and Recreation Board	MPRB Headquarters	2117 W River Rd	55411	Not Available	Office	75327	2001	738.7	65.6	62.2	155.7	152.1

Minneapolis Park and Recreation Board	North Commons Park	1801 James Ave N	55411	Not Available	Other - Entertainment / Public Assembly	13810	1972	181.1	116.8	111	217.4	211.4
Minneapolis Park and Recreation Board	Northeast Ice Arena	1306 Central Ave N	55411	Not Available	Ice/Curling Rink	32772	1996	369.1	98.1	94.8	186.1	182.7
Minneapolis Park and Recreation Board	Painter Park	620 34th St W	55408	Not Available	Other - Entertainment / Public Assembly	5787	1976	64.8	125.8	117	194	184.8
Minneapolis Park and Recreation Board	Parade Park Ice North	610 Kenwood Parkway	55403	Not Available	Ice/Curling Rink	40195	1988	1172.1	232.1	222.9	474.7	465.1
Minneapolis Park and Recreation Board	Parade Park Ice South	600 Kenwood Pkwy	55403	Not Available	Ice/Curling Rink	34351	1988	519.3	202.1	190.8	272.4	260.5
Minneapolis Park and Recreation Board	Pearl Park	414 Diamond Lake Rd E	55419	Not Available	Other - Entertainment / Public Assembly	11934	1967	143.5	100.5	90.9	197.2	184.4
Minneapolis Park and Recreation Board	Peavey Park	730 22nd St E	55404	Not Available	Other - Entertainment / Public Assembly	1865	1992	37.9	153.2	145.7	328.5	320.6
Minneapolis Park and Recreation Board	Pershing Field Park	3523 48th St W	55410	Not Available	Other - Entertainment / Public Assembly	7287	1975	65.9	83.2	77.7	150.8	144.8
Minneapolis Park and Recreation Board	Phillips Pool and Gym Park	2323 11th Ave S	55404	Not Available	Other - Entertainment / Public Assembly	41395	1978	438.2	81.8	75.8	171.6	165.2
Minneapolis Park and Recreation Board	Powderhorn Park	3400 15th Ave S	55407	Not Available	Other - Entertainment / Public Assembly	20363	1972	275.9	112.1	102	222	211.4
Minneapolis Park and Recreation Board	Rev. Dr. Martin Luther King Park	4055 Nicollet Ave S	55409	Not Available	Other - Entertainment / Public Assembly	20261	1969	206.1	110.8	101.6	175.2	165
Minneapolis Park and Recreation Board	Sibley Park	1900 40th St E	55407	Not Available	Other - Entertainment / Public Assembly	7732	1973	108.8	156.7	137.2	243.4	217.9
Minneapolis Park and Recreation Board	Southside Operations Center	3800 Bryant Ave S	55409	Not Available	Repair Services (Vehicle, Shoe, Locksmith, etc.)	58683	1986	712.4	117.5	108.2	204.4	192.2
Minneapolis Park and Recreation Board	Stewart Park	2700 12th Ave S	55407	Not Available	Other - Entertainment / Public Assembly	6081	1976	75.8	123.4	109.8	210.8	196.6
Minneapolis Park and Recreation Board	VanCleve Park	901 15th Ave SE	55414	Not Available	Other - Entertainment / Public Assembly	13266	1970	182.9	142.3	130.1	234.9	218
Minneapolis Park and Recreation Board	Waite Park	1810 34th Ave NE	55418	Not Available	Other - Entertainment / Public Assembly	6212	1979	46.7	59	55.3	122.1	118.2
Minneapolis Park and Recreation Board	Webber Park	4400 Dupont Ave N	55412	Not Available	Other - Entertainment / Public Assembly	7016	1977	77.8	98.4	91.3	183.8	172.6
Minneapolis Park and Recreation Board	Whittier Park	2600 Grand Ave S	55408	Not Available	Fitness Center/Health Club/Gym	7549	1974	133.9	156.8	143	293.9	279.3

Minneapolis Park and Recreation Board	Windom NE Park	2251 Hayes St NE	55418	Not Available	Other - Entertainment / Public Assembly	3880	1991	63.7	174.7	158.2	281.3	264
Minneapolis Public Schools	Andersen Elementary	2727 10th Ave S	55407	34	K-12 School	233557	1976	597.1	85.6	80.7	168.1	163
Minneapolis Public Schools	Anthony Middle School	5757 Irving Ave S	55419	65	K-12 School	139806	1957	1014.5	90.7	83	128.7	120.7
Minneapolis Public Schools	Anwatin Middle School	256 Upton Ave S	55405	86	K-12 School	173507	1960	819.4	51.3	47.6	81.3	76.7
Minneapolis Public Schools	Armatage Elementary	2501 West 56th Street	55410	75	K-12 School	91500	1952	630.9	84.7	77.4	121.8	113.9
Minneapolis Public Schools	Bancroft Elementary	1315 East 38th Street	55407	53	K-12 School	79267	1925	631.9	102.9	92.8	142.4	131.5
Minneapolis Public Schools	Barton Elementary	4237 Colfax Ave S	55409	68	K-12 School	83752	1925	667.3	81.4	75.7	135.5	129.5
Minneapolis Public Schools	Bethune	919 Emerson Ave	55411	80	K-12 School	75430	1968	534.9	73.2	68.3	120.8	115.7
Minneapolis Public Schools	Bryn Mawr Elementary	252 Upton Avenue South	55405	34	K-12 School	102658	1962	1096.1	109.5	103	181.7	174.9
Minneapolis Public Schools	Burroughs Elementary	1601 West 50th Street	55419	76	K-12 School	162320	2002	1112.9	68.3	63.8	116	111.3
Minneapolis Public Schools	City View Elementary	3350 4th Street North	55412	77	K-12 School	132372	1999	859.3	57.4	54.1	107.5	104.1
Minneapolis Public Schools	Davis Center (District Headquarters)	1250 West Broadway	55411	98	Office	237742	2013	1694.1	34.7	34.7	108.9	108.9
Minneapolis Public Schools	Dowling Elementary	3900 West River Parkway	55406	63	K-12 School	90776	2007	928.1	120.1	108.2	178.9	165.5
Minneapolis Public Schools	Edison Senior High	700 22nd Ave NE	55418	69	K-12 School	279550	1925	1974.5	80.2	74.9	122.7	117.1
Minneapolis Public Schools	Emerson Elementary	1421 Spruce Place	55403	60	K-12 School	61733	1925	586.4	115.6	106.3	167.5	157.6
Minneapolis Public Schools	Field Elementary	4645 4th Ave South	55409	63	K-12 School	81171	1925	687.1	96.8	89.1	147.2	138.7
Minneapolis Public Schools	Folwell Elementary	3611 20th Ave S.	55411	94	K-12 School	140629	1945	713.3	24.7	24.7	77.5	77.5
Minneapolis Public Schools	Green Central Park Elementary	3416 4th Ave S	55408	98	K-12 School	120735	1993	485.1	53.1	50.3	72.2	69.3
Minneapolis Public Schools	Hale Elementary	1220 East 54th Street	55417	53	K-12 School	81807	1930	353.9	104.4	94.5	157.7	147.3
Minneapolis Public Schools	Hall Elementary	1601 Aldrich Ave N	55411	57	K-12 School	81030	1960	734.6	101	94.9	156.9	150.4
Minneapolis Public Schools	Harrison -other	501 Irving Ave N	55405	88	Other	54793	1998	438	70.9	66.6	132.5	128
Minneapolis Public Schools	Henry Senior High	4320 Newton Ave N	55412	73	K-12 School	240121	1926	1707.8	83	75.7	124.3	116.1

Minneapolis Public Schools	Hiawatha Elementary	4201 42nd Ave S	55406	20	K-12 School	40888	1925	566.7	225.7	199.3	262.7	234.5
Minneapolis Public Schools	Howe Elementary	3733 43rd Ave S.	55411	97	K-12 School	36161	1941	227.9	30.7	29.9	96.3	94
Minneapolis Public Schools	Jefferson Elementary	1200 West 26th Street	55405	74	K-12 School	156450	1925	1008.7	82.6	77.1	115	109
Minneapolis Public Schools	Jenny Lind	5025 Bryant Avenue North	55413	53	K-12 School	96693	1995	811.6	76.6	73.3	139.8	136.3
Minneapolis Public Schools	Jordan Park	1501 30th Ave N	55430	8	K-12 School	123293	1999	1830.5	135.7	130.9	247.4	242.3
Minneapolis Public Schools	Keewaydin Elementary	5209 30th Ave S	55417	45	K-12 School	87000	1934	854.6	94	87.2	165	157.8
Minneapolis Public Schools	Kenny Elementary	5720 Emerson Ave S	55419	60	K-12 School	61776	1954	543.7	112.1	102.9	156.8	147.1
Minneapolis Public Schools	Kenwood Elementary	2013 Penn Ave S	55405	87	K-12 School	67300	1925	432.5	69.3	65.1	110.5	106.1
Minneapolis Public Schools	Lake Harriet Lower Campus (Audubon)	4030 Chowen Ave S	55410	17	K-12 School	37540	1925	589.6	182.8	168.5	274.3	259.3
Minneapolis Public Schools	Lake Harriet Upper Campus (Fulton)	4912 Vincent Ave S	55410	66	K-12 School	77238	1925	713.6	107.6	98.8	161.3	152.1
Minneapolis Public Schools	Lincoln Elementary	2131 12th Ave N	55411	93	K-12 School	155831	1952	589.1	18.4	18.4	57.8	57.8
Minneapolis Public Schools	Longfellow Elementary	3017 E 31st Street	55406	18	K-12 School	42733	1925	534.8	175	160.5	227.9	212.7
Minneapolis Public Schools	Loring Elementary	2600 44th Ave N	55412	73	K-12 School	60096	1928	494.4	103.5	95.1	146.1	137.4
Minneapolis Public Schools	Lucy Laney Elementary	3333 Penn Ave N	55412	53	K-12 School	111726	2000	1104.7	88.7	84.6	164.2	159.9
Minneapolis Public Schools	Lyndale Elementary	3333 Grand Ave S	55408	92	K-12 School	97506	1966	551.5	47.3	44.4	92.8	89.7
Minneapolis Public Schools	Marcy Elementary	415 4th Ave SE	55414	76	K-12 School	78957	1992	671.8	78	73	141.8	136.7
Minneapolis Public Schools	Nellie Stone Johnson Elementary	807 27th Ave N	55411	44	K-12 School	125150	2001	1200.6	85.2	80.6	159	154.2
Minneapolis Public Schools	North Senior High	1500 James Ave N	55411	9	K-12 School	290000	1972	3733.2	128.6	122.6	218	210.2
Minneapolis Public Schools	Northeast Middle	2955 Hayes Street NE	55418	28	K-12 School	176336	1956	1920.8	128.9	124	190.9	185.7
Minneapolis Public Schools	Northrop at Ericsson	4315 31st Ave S	55406	69	K-12 School	57874	2007	470.4	96.3	87.3	142.5	133.1
Minneapolis Public Schools	Nutrition Center	812 Plymouth Ave.	55411	98	Refrigerated Warehouse	73143	1974	208.4	13.9	13.9	43.6	43.6
Minneapolis Public Schools	Olson Middle School	1607 51st Ave N	55430	69	K-12 School	134959	1962	1082.5	94.9	88	140.6	133.3
Minneapolis Public Schools	Pillsbury Elementary	2250 Garfield Street NE	55418	68	K-12 School	87705	1991	764.5	77.6	73.8	144.6	140.5

Minneapolis Public Schools	Pratt Community Center	66 Malcom Street SE	55414	94	K-12 School	42437	1925	209.9	51.3	46.6	84.4	79.4
Minneapolis Public Schools	Ramsey Elem / Washburn Senior	201 West 49th Street	55409	38	K-12 School	403234	1925	4327.8	114.9	109.4	184.2	178.5
Minneapolis Public Schools	Roosevelt Senior High	4029 28th Ave S	55406	69	K-12 School	324718	1925	2475.6	95.9	88.1	135.4	127.2
Minneapolis Public Schools	Sanford Middle School	3524 42nd Ave S	55406	52	K-12 School	132893	1926	1140.2	118.3	107.7	155.7	144.2
Minneapolis Public Schools	Seward Elementary	2309 28th Ave S	55406	80	K-12 School	79692	1965	665.7	69.5	64.9	137	132.2
Minneapolis Public Schools	Sheridan Elementary	1201 University Ave NE	55413	35	K-12 School	148005	1932	1261.4	113.1	103.9	153.3	143.6
Minneapolis Public Schools	South Senior High	3131 19th Ave S	55407	51	K-12 School	283094	1968	2736.6	89.7	85.6	161.5	157.1
Minneapolis Public Schools	Southwest Senior High	3414 West 47th street	55410	71	K-12 School	300845	1939	2480.8	97.9	90.5	144.6	136.9
Minneapolis Public Schools	Sullivan Elementary	3100 E 28th Street	55406	53	K-12 School	214421	1991	1790.6	85.6	80.2	142.1	136.4
Minneapolis Public Schools	W. Harry Davis Academy Elementary	1510 Glenwood Ave	55405	68	K-12 School	94282	1995	704.7	74.6	70.1	126.5	121.8
Minneapolis Public Schools	Waite Park Elementary	1800 34th Ave S	55418	46	K-12 School	60083	1950	641.5	116.6	109.6	184	176.6
Minneapolis Public Schools	Wenonah Elementary	5625 23rd Ave S	55417	67	K-12 School	44827	1952	392.6	104.3	95.4	153.7	144.4
Minneapolis Public Schools	Whittier Elementary	315 West 26th Street	55404	82	K-12 School	142460	1997	940.4	57.1	54.4	108.9	106.1
Minneapolis Public Schools	Wilder / Transition Plus	3345 Chicago Ave	55407	60	K-12 School	205536	1975	1578	82.6	79.2	131.9	128.3
Minneapolis Public Schools	Windom Elementary	5821 Wentworth Ave S	55419	61	K-12 School	73618	1925	644.5	93.6	85.5	150.2	141.6

